

L Number	Hits	Search Text	DB	Time stamp
1	3966	((546/261) or (546/276.1) or (546/280.4) or (546/281.4) or (546/290) or (546/297) or (546/298) or (546/299) or (546/300) or (546/301) or (546/302)).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/12/13 14:49
2	881	((504/250) or (504/251) or (504/252) or (504/253) or (504/254) or (504/255) or (504/256) or (504/257) or (504/258)).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/12/13 14:50
3	4578	((546/261) or (546/276.1) or (546/280.4) or (546/281.4) or (546/290) or (546/297) or (546/298) or (546/299) or (546/300) or (546/301) or (546/302)).CCLS.) or ((504/250) or (504/251) or (504/252) or (504/253) or (504/254) or (504/255) or (504/256) or (504/257) or (504/258)).CCLS.)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/12/13 14:50
4	186440	pyridine or pyridyl or pyridinyl	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/12/13 14:50
5	3177	((546/261) or (546/276.1) or (546/280.4) or (546/281.4) or (546/290) or (546/297) or (546/298) or (546/299) or (546/300) or (546/301) or (546/302)).CCLS.) or ((504/250) or (504/251) or (504/252) or (504/253) or (504/254) or (504/255) or (504/256) or (504/257) or (504/258)).CCLS.) and (pyridine or pyridyl or pyridinyl)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/12/13 14:50

=> d his

(FILE 'HOME' ENTERED AT 13:13:24 ON 13 DEC 2002)

FILE 'REGISTRY' ENTERED AT 13:13:38 ON 13 DEC 2002

L1 STRUCTURE UPLOADED  
 L2 0 S L1 SSS SAM  
 L3 STRUCTURE UPLOADED  
 L4 1 S L3 SSS SAM  
 L5 STRUCTURE UPLOADED  
 L6 1 S L5 SSS SAM  
 L7 54 S L5 SSS FUL

FILE 'CAPLUS' ENTERED AT 13:20:36 ON 13 DEC 2002

L8 14 S L7

FILE 'CAOLD' ENTERED AT 13:21:17 ON 13 DEC 2002

=> s 17

L9 0 L7

=> log y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.38

206.89

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

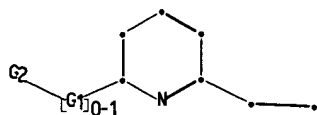
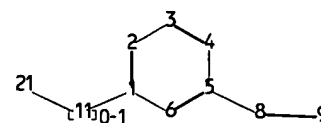
SESSION

CA SUBSCRIBER PRICE

0.00

-8.67

STN INTERNATIONAL LOGOFF AT 13:21:29 ON 13 DEC 2002

O<sub>3</sub>Hy<sup>1</sup>Hy<sup>2</sup>14<sup>3</sup>12<sup>1</sup>13<sup>2</sup>

chain nodes :

8 9 11 12 13 14 21

ring nodes :

1 2 3 4 5 6

chain bonds :

1-11 5-8 8-9 11-21

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6

exact/norm bonds :

1-11 11-21

exact bonds :

5-8 8-9

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

isolated ring systems :

containing 1 :

G1:O,S

G2:[\*1],[\*2],[\*3]

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 8:CLASS 9:CLASS 11:CLASS 12:Atom

13:Atom 14:Atom 21:CLASS

Generic attributes :

12:

Saturation : Unsaturated

Number of Carbon Atoms : less than 7

Type of Ring System : Monocyclic

13:

Saturation : Unsaturated

Number of Carbon Atoms : less than 7  
Number of Hetero Atoms : less than 2  
Type of Ring System : Monocyclic  
14:  
Saturation : Unsaturated

Element Count :

Node 12: Limited

C,C1-5

N,N1

Node 13: Limited

C,C4

S,S1

O,O0

N,N0

=&gt;

Uploading 10087066a.str

L1 STRUCTURE UPLOADED

=&gt; d 11

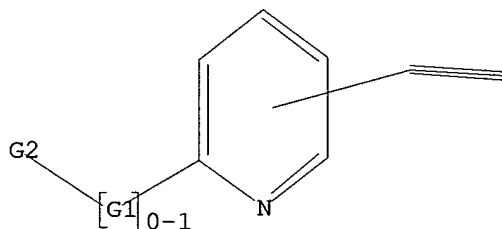
L1 HAS NO ANSWERS

L1 STR

Cb 3

Hy 1

Hy 2



G1 O,S

G2 [G1],[G2],[G3]

Structure attributes must be viewed using STN Express query preparation.

=&gt; s 11 sss sam

SAMPLE SEARCH INITIATED 17:17:10 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 864 TO ITERATE

100.0% PROCESSED 864 ITERATIONS

26 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 15517 TO 19043

PROJECTED ANSWERS: 215 TO 825

L2 26 SEA SSS SAM L1

=&gt;

Uploading 10087066b.str

=&gt;

Uploading 10087066b.str

L3 STRUCTURE UPLOADED

=> d 13

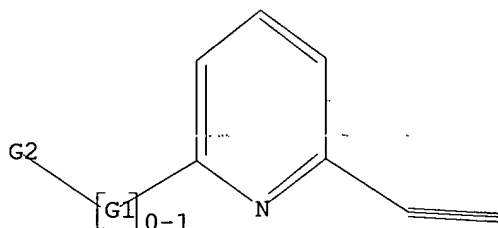
L3 HAS NO ANSWERS

L3 STR

Cb 3

Hy 1

Hy 2



G1 O, S

G2 [01], [02], [03]

Structure attributes must be viewed using STN Express query preparation.

=> s 13 sss sam

SAMPLE SEARCH INITIATED 17:20:46 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 160 TO ITERATE

100.0% PROCESSED 160 ITERATIONS

6 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 2442 TO 3958

PROJECTED ANSWERS: 6 TO 266

L4 6 SEA SSS SAM L3

=> s 13 sss ful

FULL SEARCH INITIATED 17:20:56 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 3150 TO ITERATE

100.0% PROCESSED 3150 ITERATIONS

138 ANSWERS

SEARCH TIME: 00.00.01

L5 138 SEA SSS FUL L3

10/087,066

=> s 15

L6            50 L5

=> d 16 1-50 bib,ab,hitstr

L6 ANSWER 1 OF 50 CAPLUS COPYRIGHT 2002 ACS  
 AN 2002:693101 CAPLUS  
 DN 137:212312  
 TI Herbicidal 2-alkynyl-pyri(mi)dines  
 IN Maier, Thomas  
 PA BASF Aktiengesellschaft, Germany  
 SO Eur. Pat. Appl., 28 pp.  
 CODEN: EPXXDW

DT Patent  
 LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1238586	A1	20020911	EP 2002-3518	20020215
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	JP 2002322006	A2	20021108	JP 2002-59386	20020305
PRAI	US 2001-274755P	P	20010309	← Provisional appl.	
OS	MARPAT 137:212312				

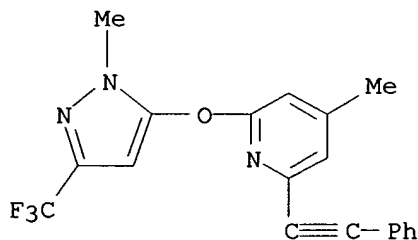
AB A method of combating undesired plant growth at a locus comprises application to the locus of an effective amt. of at least one compd. I (R1 = (un)substituted alkyl, alkenyl, alkynyl, alkoxy,alkoxyalkyl, alkoxyalkoxy, haloalkyl, haloalkoxy, cyano, nitro, SF5, etc.; R3 = H, formyl, (un)substituted alkyl, alkenyl, trihydrocarbylsilyl, aryl, (un)substituted 5- or 6-membered nitrogen-contg. heteroarom. group; A = (un)substituted aryl, (un)substituted 5- or 6-membered nitrogen-contg. heteroarom. group, or (un)substituted thienyl; Z = O, S or single bond; X = N or CR2 (R2 = H, or R2 = R1); m = 0, 1, or 2) and the agronomically acceptable salts or N-oxides thereof, or herbicidal compns. contg. such compds. as active ingredients.

IT 457057-31-7 457057-33-9 457057-34-0  
 457057-35-1 457057-36-2 457057-37-3  
 457057-40-8

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)  
 (herbicide)

RN 457057-31-7 CAPLUS

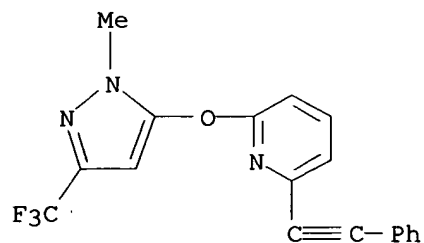
CN Pyridine, 4-methyl-2-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-6-(phenylethynyl)- (9CI) (CA INDEX NAME)



RN 457057-33-9 CAPLUS

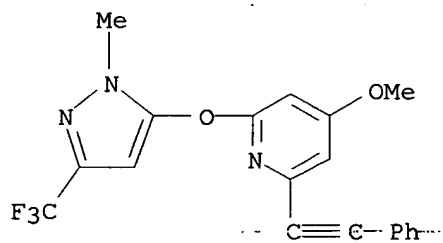
CN Pyridine, 2-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-6-(phenylethynyl)- (9CI) (CA INDEX NAME)





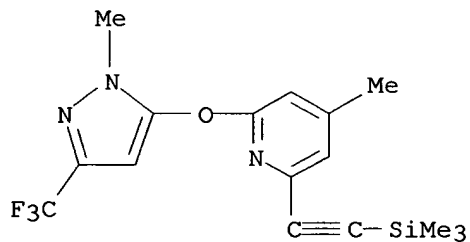
RN 457057-34-0 CAPLUS

CN Pyridine, 4-methoxy-2-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-6-(phenylethynyl)- (9CI) (CA INDEX NAME)



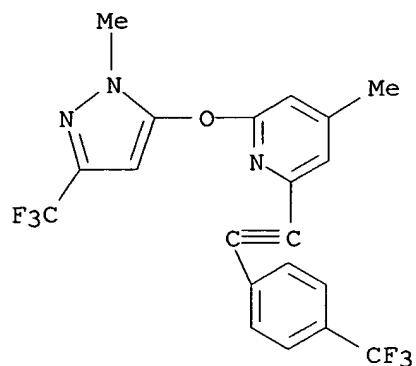
RN 457057-35-1 CAPLUS

CN Pyridine, 4-methyl-2-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-6-[(trimethylsilyl)ethynyl]- (9CI) (CA INDEX NAME)



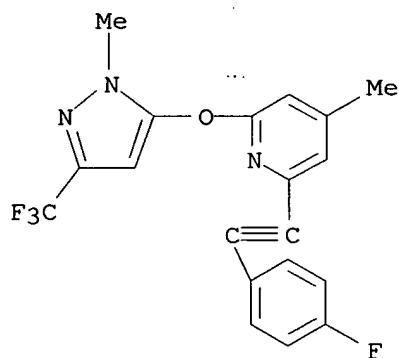
RN 457057-36-2 CAPLUS

CN Pyridine, 4-methyl-2-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-6-[[4-(trifluoromethyl)phenyl]ethynyl]- (9CI) (CA INDEX NAME)



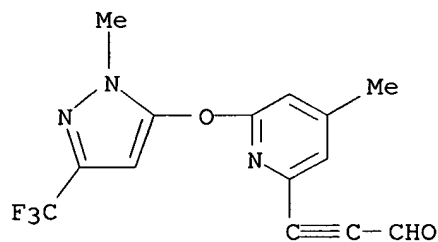
RN 457057-37-3 CAPLUS

CN Pyridine, 2-[(4-fluorophenyl)ethynyl]-4-methyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]- (9CI) (CA INDEX NAME)



RN 457057-40-8 CAPLUS

CN 2-Propynal, 3-[4-methyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-2-pyridinyl]- (9CI) (CA INDEX NAME)



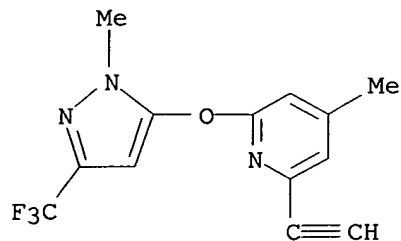
IT 457057-38-4 457057-39-5

RL: AGR (Agricultural use); BSU (Biological study, unclassified); RCT (Reactant); BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)  
(herbicide)

RN 457057-38-4 CAPLUS

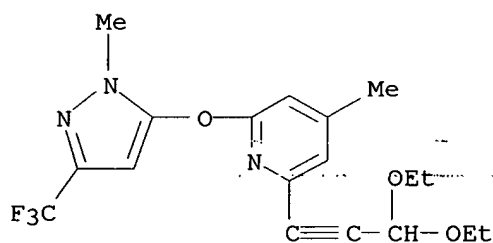
CN Pyridine, 2-ethynyl-4-methyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-

yl]oxy]- (9CI) (CA INDEX NAME)



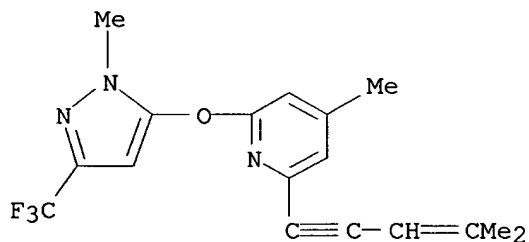
RN 457057-39-5 CAPLUS

CN Pyridine, 2-(3,3-diethoxy-1-propynyl)-4-methyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]- (9CI) (CA INDEX NAME)

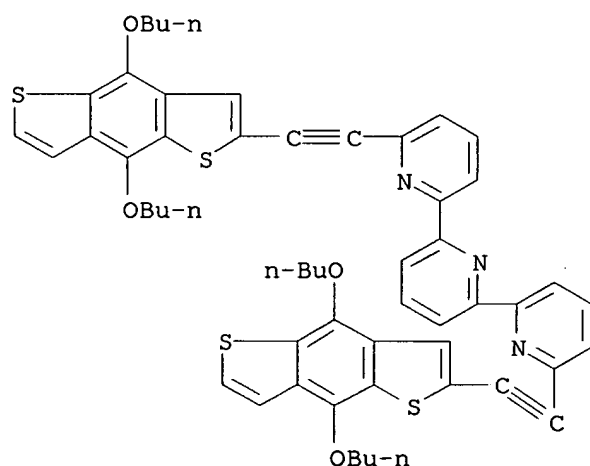
IT **457057-41-9P**RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. as herbicide)

RN 457057-41-9 CAPLUS

CN Pyridine, 4-methyl-2-(4-methyl-3-penten-1-ynyl)-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]- (9CI) (CA INDEX NAME)

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 50 CAPLUS COPYRIGHT 2002 ACS  
 AN 2002:460725 CAPLUS  
 DN 137:337556  
 TI Electronic coupling in 6,6''-donor-substituted terpyridines: tuning of the mixed valence state by proton and metal ion complexation  
 AU Bueschel, Michael; Helldobler, Markus; Daub, Joerg  
 CS Institut fuer Organische Chemie, Universitaet Regensburg, Regensburg, D-93040, Germany  
 SO Chemical Communications (Cambridge, United Kingdom) (2002), (13), 1338-1339  
 CODEN: CHCOFS; ISSN: 1359-7345  
 PB Royal Society of Chemistry  
 DT Journal  
 LA English  
 AB 6,6''-Terpyridyl-bishydroquinone conjugates are synthesized by Pd-catalyzed cross-coupling and their conformational switching, triggered by protons, zinc(II) or cobalt(II), is studied by cyclovoltammetry and in situ UV/Vis/NIR and FT-IR spectroelectrochem.  
 IT **474265-93-5**  
 RL: CPS (Chemical process); FMU (Formation, unclassified); PEP (Physical, engineering or chemical process); PRP (Properties); RCT (Reactant); FORM (Formation, nonpreparative); PROC (Process); RACT (Reactant or reagent) (FT-IR spectroelectrochem., cyclovoltammetry, and electronic spectroscopy study on electronic coupling in terpyridyl-bishydroquinone conjugates)  
 RN 474265-93-5 CAPLUS  
 CN INDEX NAME NOT YET ASSIGNED



RE.CNT 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 50 CAPLUS COPYRIGHT 2002 ACS

AN 2002:232594 CAPLUS

DN 137:94079

TI Structural characterisation of a series of acetylide-functionalised oligopyridines and the synthesis, characterisation and optical spectroscopy of platinum di-yne and poly-yne containing oligopyridyl linker groups in the backbone

AU Khan, Muhammad S.; Al-Mandhary, Muna R. A.; Al-Suti, Mohammed K.; Hisahm, Abdul Khader; Raithby, Paul R.; Ahrens, Birte; Mahon, Mary F.; Male, Louise; Marsegia, Elisabeth A.; Tedesco, Emilio; Friend, Richard H.; Koehler, Anna; Feeder, Neil; Teat, Simon J.

CS Department of Chemistry, College of Science, Sultan Qaboos University, Sultanate of Oman, Oman

SO Journal of the Chemical Society, Dalton Transactions (2002), (7), 1358-1368

CODEN: JCSDAA; ISSN: 1472-7773

PB Royal Society of Chemistry

DT Journal

LA English

AB A series of trimethylsilyl-protected bis(ethynyl)oligopyridine derivs. Me<sub>3</sub>SiC.tplbond.C-R-C.tplbond.C-SiMe<sub>3</sub> (R = 2,2'-bipyridine-5,5'-diyl (1a), 2,2'-bipyridine-6,6'-diyl (2a), 2,2':6',2''-terpyridine-6,6''-diyl (3a), 4'-phenyl-2,2':6',2''-terpyridine-6,6''-diyl (4a)) has been synthesized and 2a-4a have been characterized by single crystal X-ray crystallog. The corresponding terminal di-yne H-C.tplbond.C-R-C.tplbond.CH (1b-4b) and their dinuclear platinum(ii) complexes trans-[(Et<sub>3</sub>P)<sub>2</sub>(Ph)Pt-C.tplbond.C-R-C.tplbond.C-Pt(Ph)(Et<sub>3</sub>P)<sub>2</sub>] (1M-4M) have been characterized spectroscopically and by single-crystal X-ray crystallog. for 2M. Novel platinum(ii) poly-yne polymers trans-[Pt(PBun<sub>3</sub>)<sub>2</sub>-C.tplbond.C-R-C.tplbond.C-n (1P-4P) contg. the oligopyridyl linker groups in the backbone have been synthesized by the CuI-catalyzed dehydrohalogenation polycondensation reaction of 1b-4b and trans-[(Bu<sub>3</sub>P)<sub>2</sub>PtCl<sub>2</sub>] in Pri<sub>2</sub>NH-CH<sub>2</sub>Cl<sub>2</sub>. The polymeric materials exhibit decreasing thermal stability with increasing no. of pyridine units in the linker group. In the absorption and phosphorescence spectra, the platinum(ii) poly-yne and di-yne complexes 1P, 1M show red shifts whereas the complexes 2P-3P, 2M-3M show blue shifts of the S<sub>1</sub> and T<sub>1</sub> states. At room temp., the phosphorescence spectra indicate some excimer formation whereas at 10 K, only intra-chain emission occurs. The results of the photophys. studies are compared with those obtained for other platinum(ii)-contg. poly-yne and related organometallic polymers.

IT 133810-42-1P 133810-47-6P 133810-48-7P

133826-69-4P 352010-48-1P 442157-32-6P

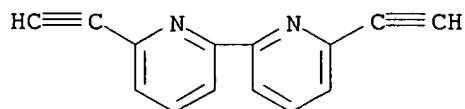
442157-34-8P 442157-35-9P 442157-36-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

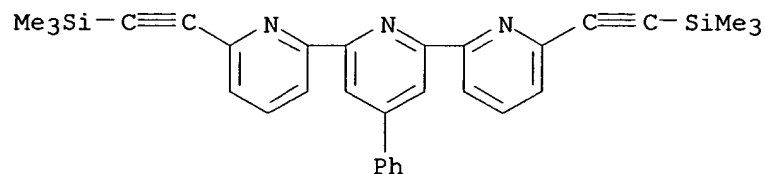
(acetylide-functionalized oligopyridines and platinum di-yne and poly-yne contg. oligopyridyl linker)

RN 133810-42-1 CAPLUS

CN 2,2'-Bipyridine, 6,6'-diethynyl- (9CI) (CA INDEX NAME)

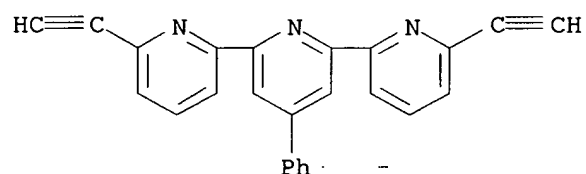


RN 133810-47-6 CAPLUS

CN 2,2':6',2''-Terpyridine, 4'-phenyl-6,6''-bis[(trimethylsilyl)ethynyl]-  
(9CI) (CA INDEX NAME)

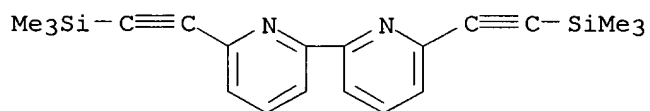
RN 133810-48-7 CAPLUS

CN 2,2':6',2''-Terpyridine, 6,6''-diethynyl-4'-phenyl- (9CI) (CA INDEX NAME)



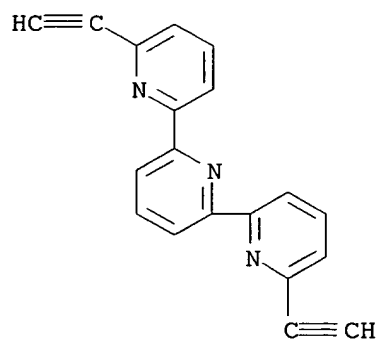
RN 133826-69-4 CAPLUS

CN 2,2'-Bipyridine, 6,6'-bis[(trimethylsilyl)ethynyl]- (9CI) (CA INDEX NAME)



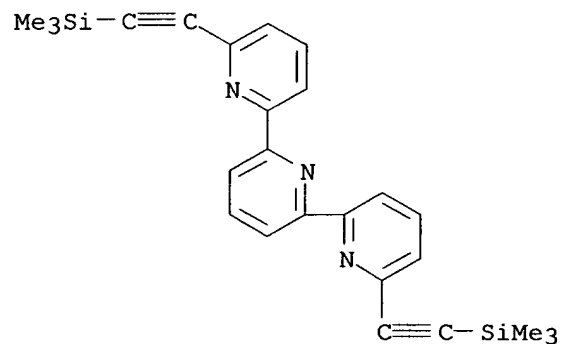
RN 352010-48-1 CAPLUS

CN 2,2':6',2''-Terpyridine, 6,6''-diethynyl- (9CI) (CA INDEX NAME)

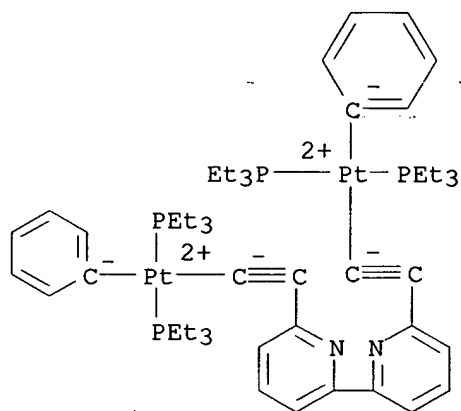


RN 442157-32-6 CAPLUS

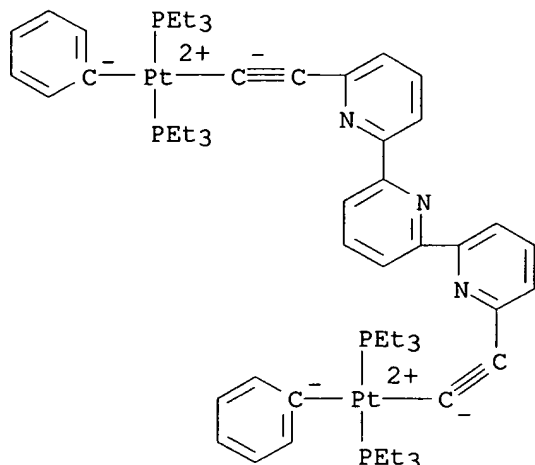
CN 2,2':6',2''-Terpyridine, 6,6''-bis[(trimethylsilyl)ethynyl]- (9CI) (CA  
INDEX NAME)



RN 442157-34-8 CAPLUS  
 CN Platinum, [ $\mu$ -([2,2'-bipyridine]-6,6'-diyl-di-2,1-ethynediyl)]diphenyltetrakis(triethylphosphine)di-, stereoisomer (9CI) (CA INDEX NAME)

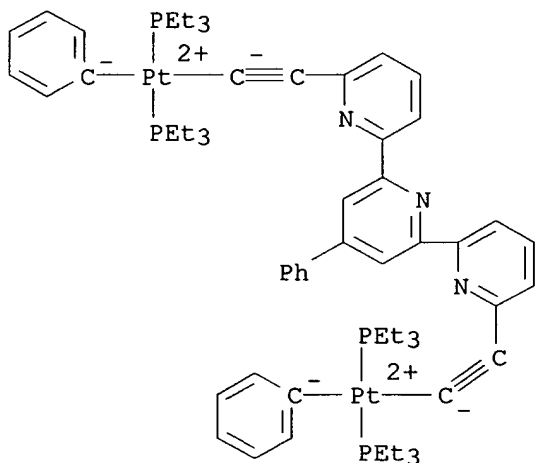


RN 442157-35-9 CAPLUS  
 CN Platinum, diphenyl[ $\mu$ -([2,2':6',2''-terpyridine]-6,6''-diyl-di-2,1-ethynediyl)]tetrakis(triethylphosphine)di-, stereoisomer (9CI) (CA INDEX NAME)



RN 442157-36-0 CAPLUS

CN Platinum, diphenyl[.mu.-[(4'-phenyl[2,2':6',2''-terpyridine]-6,6''-diyl)di-2,1-ethynediyl]]tetrakis(triethylphosphine)di-, stereoisomer (9CI) (CA INDEX NAME)



IT 442157-40-6P 442157-42-8P 442157-44-0P

442157-46-2P 442157-47-3P 442157-48-4P

RL: SPN (Synthetic preparation); PREP (Preparation)

(acetylide-functionalized oligopyridines and platinum di-ynes and poly-ynes contg. oligopyridyl linker)

RN 442157-40-6 CAPLUS

CN Platinum, [6-(ethynyl-.kappa.C2)-6'-ethynyl-2,2'-bipyridinato(2-)]bis(tributylphosphine)-, homopolymer (9CI) (CA INDEX NAME)

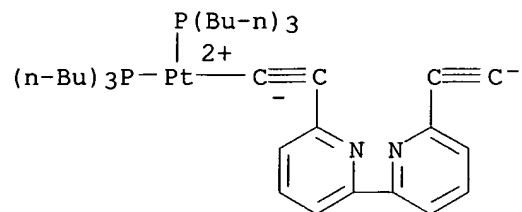
CM 1

CRN 442157-39-3

CMF C38 H60 N2 P2 Pt

CCI CCS

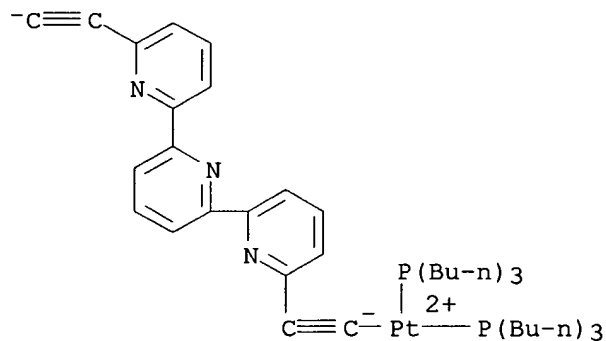




RN 442157-42-8 CAPLUS  
 CN Platinum, [6-(ethynyl-.kappa.C2)-6''-ethynyl-2,2':6',2''-terpyridinato(2-)]bis(tributylphosphine)-, homopolymer (9CI) (CA INDEX NAME)

CM 1

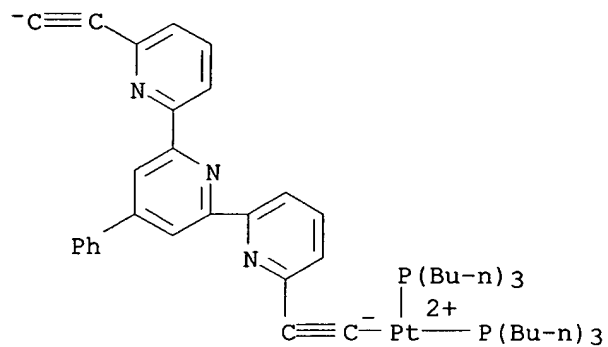
CRN 442157-41-7  
 CMF C43 H63 N3 P2 Pt  
 CCI CCS



RN 442157-44-0 CAPLUS  
 CN Platinum, [6-(ethynyl-.kappa.C2)-6''-ethynyl-4'-phenyl-2,2':6',2''-terpyridinato(2-)]bis(tributylphosphine)-, homopolymer (9CI) (CA INDEX NAME)

CM 1

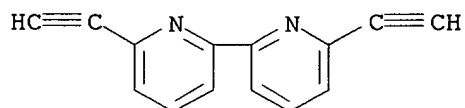
CRN 442157-43-9  
 CMF C49 H67 N3 P2 Pt  
 CCI CCS



RN 442157-46-2 CAPLUS  
 CN Platinum, dichlorobis(tributylphosphine)-, (SP-4-1)-, polymer with  
 6,6'-diethynyl-2,2'-bipyridine (9CI) (CA INDEX NAME)

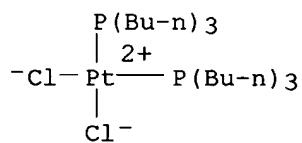
CM 1

CRN 133810-42-1  
 CMF C14 H8 N2



CM 2

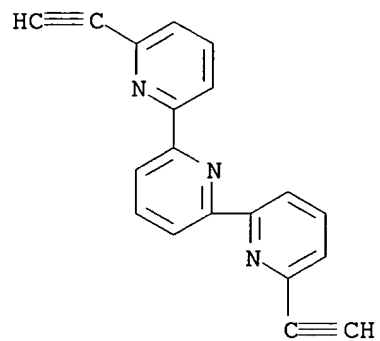
CRN 15391-01-2  
 CMF C24 H54 Cl2 P2 Pt  
 CCI CCS



RN 442157-47-3 CAPLUS  
 CN Platinum, dichlorobis(tributylphosphine)-, (SP-4-1)-, polymer with  
 6,6''-diethynyl-2,2':6',2''-terpyridine (9CI) (CA INDEX NAME)

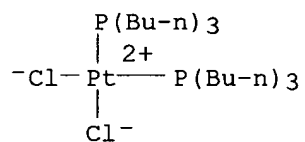
CM 1

CRN 352010-48-1  
 CMF C19 H11 N3



CM 2

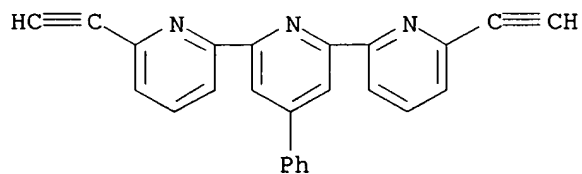
CRN 15391-01-2  
CMF C24 H54 Cl2 P2 Pt  
CCI CCS



RN	442157-48-4	CAPLUS
CN	Platinum, dichlorobis(tributylphosphine)-, (SP-4-1)-, polymer with 6,6''-diethynyl-4'-phenyl-2,2':6',2''-terpyridine (9CI) (CA INDEX NAME)	

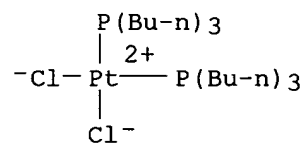
CM 1

CRN 133810-48-7  
CMF C25 H15 N3



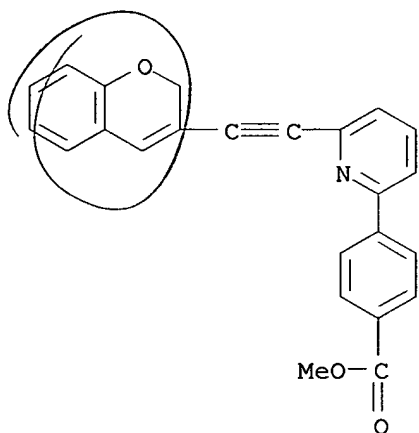
CM 2

CRN 15391-01-2  
CMF C24 H54 Cl2 P2 Pt  
CCI CCS



RE.CNT 62      THERE ARE 62 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 4 OF 50 CAPLUS COPYRIGHT 2002 ACS  
 AN 2001:867362 CAPLUS  
 DN 136:151322  
 TI Efficient syntheses of new heteroarotinoids through functional pyridylzinc reagents and palladium-catalyzed cross-coupling reactions  
 AU Alami, Mouad; Peyrat, Jean-Francois; Belachmi, Larbi; Brion, Jean-Daniel  
 CS Laboratoire de Chimie Therapeutique, associe au CNRS (BioCIS), Universite Paris-Sud, Faculte de Pharmacie, Chatenay-Malabry, 92296, Fr.  
 SO European Journal of Organic Chemistry (2001), (22), 4207-4212  
 CODEN: EJOCFK; ISSN: 1434-193X  
 PB Wiley-VCH Verlag GmbH  
 DT Journal  
 LA English  
 OS CASREACT 136:151322  
 AB A convergent synthesis of heteroarotinoids bearing chromene rings in assocn. with pyridyl or ethynylpyridyl moieties, from 6-bromo-2-pyridylzinc chloride is described. This new functional heteroarylzinc reagent, readily accessible from 2,6-dibromopyridine, may undergo a selective palladium-catalyzed carbon-carbon bond-forming reaction to yield the corresponding 6-substituted-2-bromopyridines. Further manipulation of the remaining bromine atom to give the zinc deriv., and subsequent coupling with Et 4-iodobenzoate under palladium catalysis conditions afforded heteroarotinoid I. Coupling of the 6-substituted-2-bromopyridines or Me nicotinate triflate with appropriate alkynes under Sonogashira conditions give the corresponding heteroarotinoids, e.g. II.  
 IT **395642-31-6P**  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (synthesis of heteroarotinoids through functional pyridylzinc reagents and palladium-catalyzed cross-coupling reactions)  
 RN 395642-31-6 CAPLUS  
 CN Benzoic acid, 4-[6-(2H-1-benzopyran-3-ylethynyl)-2-pyridinyl]-, methyl ester (9CI) (CA INDEX NAME)



RE.CNT 51 THERE ARE 51 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 5 OF 50 CAPLUS COPYRIGHT 2002 ACS

AN 2001:518755 CAPLUS

DN 135:297298

TI A general study of the spin population of .alpha.-nitronyl nitroxide radicals: radicals with crystals presenting dominant ferro or antiferromagnetic behavior

AU Deumal, M.; Lafuente, P.; Mota, F.; Novoa, J. J.

CS Departament de Quimica Fisica and CER Quimica Teorica, Universitat de Barcelona, Barcelona, 08028, Spain

SO Synthetic Metals (2001), 122(3), 477-483

CODEN: SYMEDZ; ISSN: 0379-6779

PB Elsevier Science S.A.

DT Journal

LA English

AB The at. spin population of all the .alpha.-nitronyl nitroxide radicals whose crystals present dominant ferro or antiferromagnetic properties is computed at the B3LYP/6-31G(d) level, searching for changes and similarities in their spin distribution. The quality of the computed values is previously tested on the .alpha.-phenyl-nitronyl nitroxide radical using various basis sets. It is found that computed at. spin population presents small changes with the basis set, when the computation is done using the B3LYP d. functional. The B3LYP/6-31G(d) at. spin population of the radicals presenting dominant ferromagnetic interactions is practically independent of the system. The same is true for the antiferromagnetic systems. The two sets present also similar values. This fact is of great help when analyzing the magnetic properties of the crystals of these radicals.

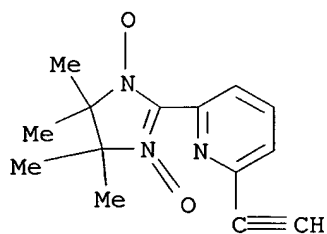
IT 184240-98-0

RL: PRP (Properties)

(spin population of .alpha.-nitronyl nitroxide radicals with crystals presenting dominant ferro or antiferromagnetic behavior)

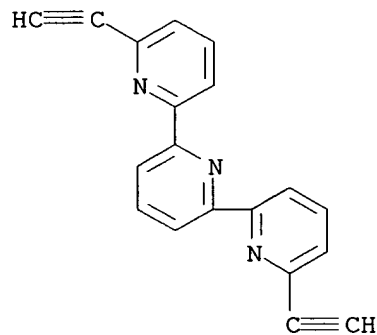
RN 184240-98-0 CAPLUS

CN 1H-Imidazol-1-yloxy, 2-(6-ethynyl-2-pyridinyl)-4,5-dihydro-4,4,5,5-tetramethyl-, 3-oxide (9CI) (CA INDEX NAME)

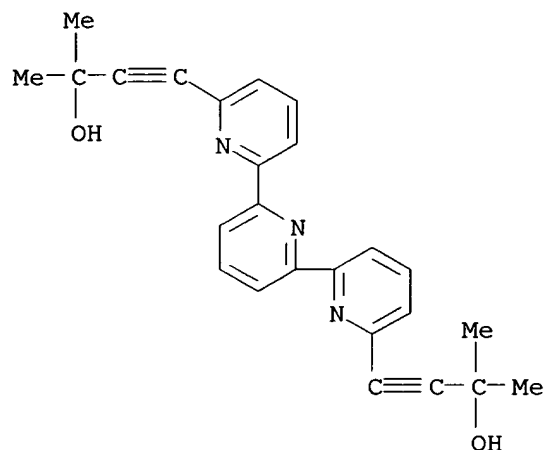


RE.CNT 52 THERE ARE 52 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 6 OF 50 CAPLUS COPYRIGHT 2002 ACS  
 AN 2001:381068 CAPLUS  
 DN 135:137690  
 TI New Ligands Bearing Chiral Bioactive Fragments  
 AU Khatyr, Abderrahim; Ziessel, Raymond  
 CS Laboratoire de Chimie d'Electronique et de Photonique Moleculaires, CNRS  
 ESA-7008 Ecole de Chimie Polymeres Materiaux de Strasbourg (ECPM),  
 Strasbourg, 67087, Fr.  
 SO Organic Letters (2001), 3(12), 1857-1860  
 CODEN: ORLEF7; ISSN: 1523-7060  
 PB American Chemical Society  
 DT Journal  
 LA English  
 OS CASREACT 135:137690  
 AB This work presents reliable and practical synthetic routes for  
 constructing hybrid mols. having both a chelating center and a useful  
 biofunction. Key synthetic step is the sequential cross-coupling reaction  
 between (ethynyl)oligopyridines and L-3-(iodo)tyrosine derivs. For  
 example, tyrosine-oligopyridine derivs. I (R = H, C<sub>6</sub>H<sub>5</sub>) are synthesized  
 from the cross-coupling reaction of (iodo)tyrosines II (R = H, C<sub>6</sub>H<sub>5</sub>) with  
 (ethynyl)oligopyridine deriv. III in the presence of Pd(PPh<sub>3</sub>)Cl<sub>2</sub>, CuI and  
 i-Pr<sub>2</sub>NH<sub>2</sub> in THF.  
 IT **352010-48-1P 352010-49-2P**  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (prepn. of (ethynyl)oligopyridine-linked tyrosines as potential  
 bioactive chelating agents)  
 RN 352010-48-1 CAPLUS  
 CN 2,2':6',2''-Terpyridine, 6,6''-diethynyl- (9CI) (CA INDEX NAME)



RN 352010-49-2 CAPLUS  
 CN 3-Butyn-2-ol, 4,4'-[2,2':6',2''-terpyridine]-6,6''-diylbis[2-methyl- (9CI)  
 (CA INDEX NAME)



IT 352010-40-3P 352010-46-9P

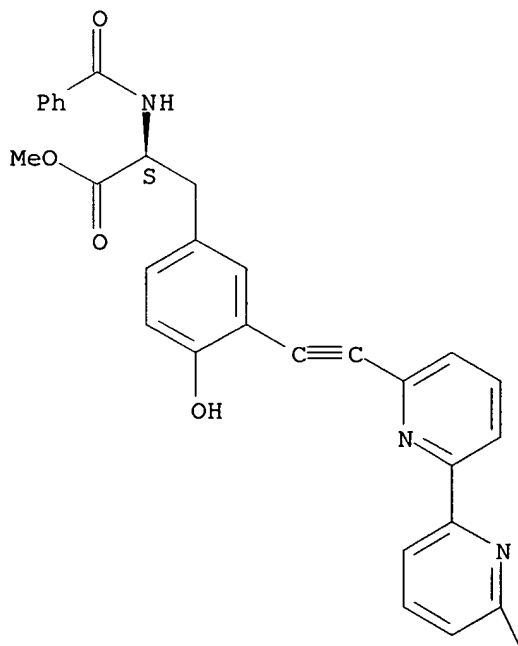
RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of (ethynyl)oligopyridine-linked tyrosines as potential  
bioactive chelating agents)

RN 352010-40-3 CAPLUS

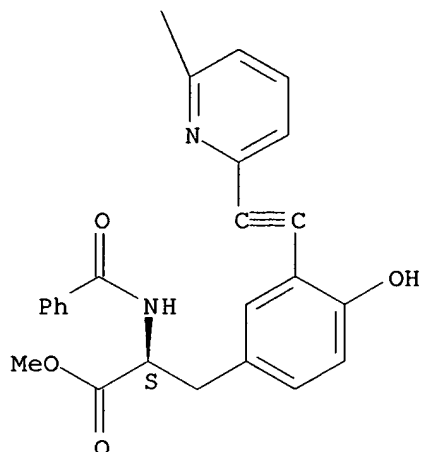
CN L-Tyrosine, 3,3'-bis([2,2':6',2''-terpyridine]-6,6''-diyl)-2,1-  
ethynediylbis[N-benzoyl-, dimethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



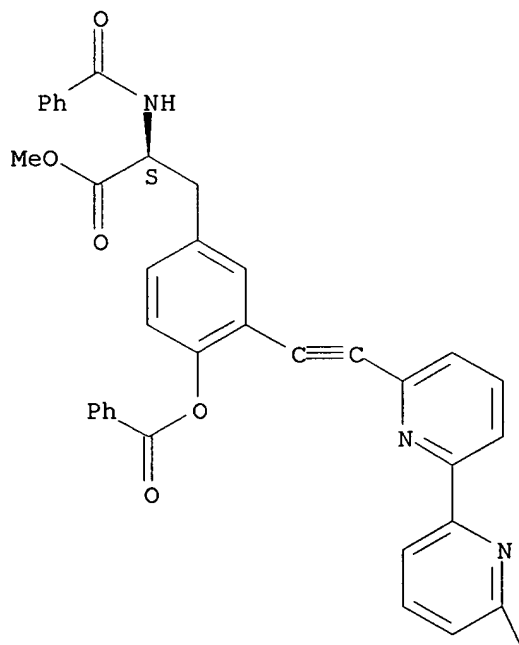


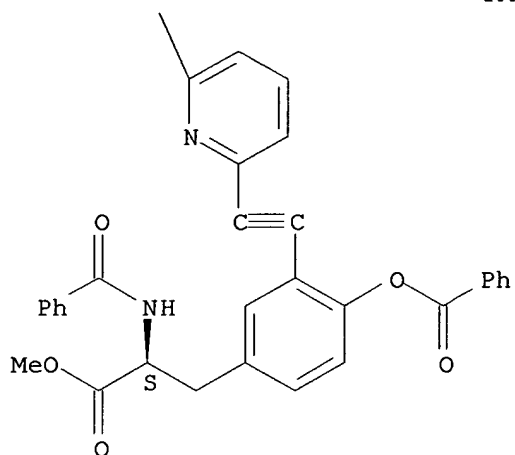


RN 352010-46-9 CAPLUS

CN L-Tyrosine, 3,3'-([2,2':6',2''-terpyridine]-6,6''-diyl)-2,1-ethynediyl)-bis[N-benzoyl-, dimethyl ester, dibenzoate (ester) (9CI) (CA INDEX NAME)

Absolute stereochemistry.





RE.CNT 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 7 OF 50 CAPLUS COPYRIGHT 2002 ACS

AN 2001:247333 CAPLUS

DN 134:266475

TI Preparation of quinuclidine compounds and drugs containing the same as the active ingredient of squalene synthase inhibitors

IN Okada, Toshimi; Kurusu, Nobuyuki; Tanaka, Keigo; Miyazaki, Kazuki; Shinmyo, Daisuke; Sugumi, Hiroyuki; Ikuta, Hironori; Hiyoshi, Hironobu; Saeki, Takao; Yanagimachi, Mamoru; Ito, Masashi

PA Eisai Co., Ltd., Japan; et al.

SO PCT Int. Appl., 267 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001023383	A1	20010405	WO 2000-JP6665	20000927
	W: AU, BR, CA, CN, HU, IL, JP, KR, MX, NO, NZ, RU, US, ZA				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	AU 2000074464	A5	20010430	AU 2000-74464	20000927
	EP 1217001	A1	20020626	EP 2000-962889	20000927
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
	NO 2002001528	A	20020528	NO 2002-1528	20020326
PRAI	JP 1999-273905	A	19990928		
	JP 2000-179352	A	20000615		
	WO 2000-JP6665	W	20000927		

OS MARPAT 134:266475

AB Title compds. [I; wherein R1 is hydrogen or hydroxyl; HAR is an optionally substituted arom. heterocycle; Ar is an optionally substituted arom. ring; W is a CH<sub>2</sub>CH<sub>2</sub> group which may be substituted, a CH:CH group which may be substituted, CC, NHCO, or the like; X is a single bond, optionally substituted C1-6 alkylene, Q ;wherein Q is oxygen, sulfur, CO, N(R<sub>2</sub>) ; wherein R<sub>2</sub> is C1-6 alkyl or C1-6 alkoxy, NHCO, or the like], salts thereof, or hydrates of both, are prepd. and are useful as excellent squalene synthase inhibitors. Thus, the title compd. II was prepd. and tested.

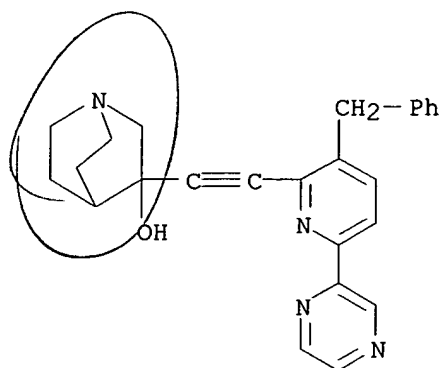
IT 332131-63-2P

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of quinuclidine compds. and drugs contg. the same as active ingredient of squalene synthase inhibitors)

RN 332131-63-2 CAPLUS

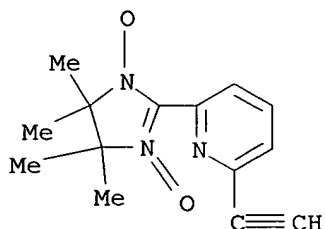
CN 1-Azabicyclo[2.2.2]octan-3-ol, 3-[[3-(phenylmethyl)-6-pyrazinyl-2-pyridinyl]ethynyl]- (9CI) (CA INDEX NAME)



Y

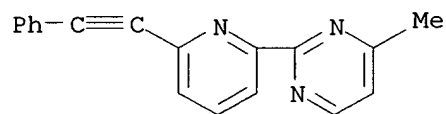
RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 9 OF 50 CAPLUS COPYRIGHT 2002 ACS  
 AN 2000:801544 CAPLUS  
 DN 134:79889  
 TI Spin density in interacting nitronyl nitroxide radicals  
 AU Pontillon, Y.; Caneschi, A.; Gatteschi, D.; Ressouche, E.; Romero, F.;  
 Schweizer, J.; Sessoli, R.; Ziessel, R.  
 CS DRFMC-SPSMS-MDN, Grenoble, 38054, Fr.  
 SO Understanding Chemical Reactivity (2000), 21(Electron, Spin and Momentum  
 Densities and Chemical Reactivity), 265-274  
 CODEN: UCREEV; ISSN: 0924-6223  
 PB Kluwer Academic Publishers  
 DT Journal  
 LA English  
 AB The single crystal polarized neutron investigation of the spin d. of 2  
 org. nitronyl nitroxide free radicals, 2-(6-ethynyl-2-pyridyl)-4,4,5,5-  
 tetramethylimidazoline-1-oxyl-3-oxide (I) and 2-(4-methylthiophenyl)-  
 4,4,5,5-tetramethylimidazoline-1-oxyl-3-oxide (II), is reported on. These  
 radicals with ferromagnetic interactions were compared with the  
 2-phenyl-4,4,5,5-tetramethylimidazoline-1-oxyl-3-oxide (III), in which no  
 intermol. magnetic interaction is obsd. The results are summarized and  
 showed that the spin d. remained on the O-N-C-N-O group. The sum of the  
 spin populations on these atoms amts. to 0.969 .mu.B for III and only  
 0.877 .mu.B for I and II implying a delocalization of the spin d. of the  
 O-N-C-N-O fragment.  
 IT **184240-98-0**  
 RL: PEP (Physical, engineering or chemical process); PRP (Properties);  
 PROC (Process)  
 (spin d. in interacting nitronyl nitroxide radicals)  
 RN 184240-98-0 CAPLUS  
 CN 1H-Imidazol-1-yloxy, 2-(6-ethynyl-2-pyridinyl)-4,5-dihydro-4,4,5,5-  
 tetramethyl-, 3-oxide (9CI) (CA INDEX NAME)



RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

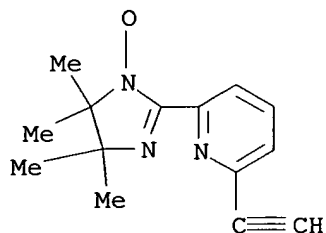
L6 ANSWER 11 OF 50 CAPLUS COPYRIGHT 2002 ACS  
AN 2000:177136 CAPLUS  
DN 132:308307  
TI Synthesis of substituted pyridylpyrimidine fungicides using  
palladium-catalyzed cross-coupling reactions  
AU Hargreaves, Stephanie L.; Pilkington, Brian L.; Russell, Sally E.;  
Worthington, Paul A.  
CS Department of Chemistry, Zeneca Agrochemicals, Jealott's Hill Research  
Station, Bracknell, RG42 6ET, UK  
SO Tetrahedron Letters (2000), 41(10), 1653-1656  
CODEN: TELEAY; ISSN: 0040-4039  
PB Elsevier Science Ltd.  
DT Journal  
LA English  
OS CASREACT 132:308307  
AB Various substituted Ph, pyridyl and benzyl zinc chlorides have been  
generated from the corresponding lithium or magnesium organometallic  
reagents. These have been cross-coupled with 2-(6-bromo-2-  
pyridyl)pyrimidines in the presence of tetrakis(triphenylphosphine)palladi-  
um(0) to produce a series of substituted pyridylpyrimidine fungicides in  
32-99% yields.  
IT **142790-12-3P**  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(pyridylpyrimidine fungicide prepn. using palladium-catalyzed  
cross-coupling reactions)  
RN 142790-12-3 CAPLUS  
CN Pyrimidine, 4-methyl-2-[6-(phenylethynyl)-2-pyridinyl]- (9CI) (CA INDEX  
NAME)



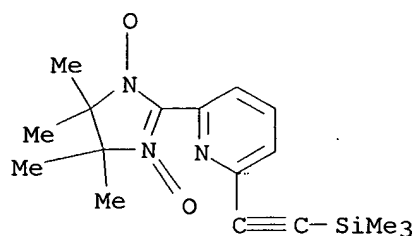
RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 12 OF 50 CAPLUS COPYRIGHT 2002 ACS  
 AN 2000:83712 CAPLUS  
 DN 132:230808  
 TI Evidence for Transmission of Ferromagnetic Interactions through Hydrogen Bonds in Alkyne-Substituted Nitroxide Radicals: Magnetostructural Correlations and Polarized Neutron Diffraction Studies  
 AU Romero, Francisco M.; Ziessel, Raymond; Bonnet, Michel; Pontillon, Yves; Ressouche, Eric; Schweizer, Jacques; Delley, Bernard; Grand, Andre; Paulsen, Carley  
 CS Laboratoire de Chimie d'Electronique et de Photonique Moleculaires associe au CNRS ESA-7008, Ecole Chimie Polymeres Materiaux (ECPM), Strasbourg, 67087, Fr.  
 SO Journal of the American Chemical Society (2000), 122(7), 1298-1309  
 CODEN: JACSAT; ISSN: 0002-7863  
 PB American Chemical Society  
 DT Journal  
 LA English  
 AB A correlation between the magnetic properties and the crystal structure of the nitronyl nitroxide (NN) radical 2-(6-ethynyl-2-pyridyl)-4,4,5,5-tetramethylimidazoline-1-oxyl-3-oxide (6-HC.tplbond.CPyNN, 1) and its imino nitroxide analog 2-(6-ethynyl-2-pyridyl)-4,4,5,5-tetramethylimidazoline-1-oxyl (6-HC.tplbond.CPyIN, 2) was shown. Magnetic susceptibility measurements on these compds. are indicative of ferromagnetic interactions between mol. units. The imino nitroxide 2 is an org. ferromagnet with crit. temp. TC = 0.19 K, whereas 1 behaves as an antiferromagnet ordering at the Neel temp., TN = 0.54 K. Compds. 1 and 2 are isostructural and crystallize in the P21/n space group. Their crystal packings are best described as chains of mols. linked by C.tplbond.CH.cntdot..cntdot..cntdot.O hydrogen bonds running along the [.hivin.101] direction. A comparative anal. of the structures and magnetic properties of both compds. suggests that the coupling between the mol. units along the chain is ferromagnetic. Thus, the magnetic susceptibilities of 1 and 2 were interpreted in terms of isotropic ferromagnetic Heisenberg linear chains of S = 1/2 spins. Weak values of the coupling consts. (J = +0.90 K for 1, J = +0.67 K for 2) were obtained. The spin d. distribution of radical 1 was detd. by a polarized neutron diffraction expt. to gain more insight into the mechanism of transmission of magnetic interactions. As in other NN radicals, the spin d. is concd. in the two nitroxide groups and a small neg. population is obsd. in the central carbon atom of the O-N-C-N-O fragment. However, two striking differences with respect to other nitroxides so far studied were detected. First, the spin d. is not equally shared between the two N-O functions. The oxygen atom O1, which participates in the formation of the hydrogen bond, is less populated than the free oxygen, O2. Ab initio spin d. calcns. clearly show that this effect is correlated to the presence of C.tplbond.CH.cntdot..cntdot..cntdot.O hydrogen bonds in the crystal. Second, a pos. spin d. was detected in the ethynylic hydrogen atom, H16. These two features indicate a spin d. transfer from one nitroxide group to the alkyne function of the neighboring mol.  
 IT **183439-03-4 184240-94-6 184240-98-0**  
**261527-71-3**  
 RL: PRP (Properties)  
 (evidence for transmission of ferromagnetic interactions through hydrogen bonds in alkyne-substituted nitroxide radicals, magnetostructural correlations and polarized neutron diffraction studies)  
 RN 183439-03-4 CAPLUS  
 CN 1H-Imidazol-1-yloxy, 2-(6-ethynyl-2-pyridinyl)-4,5-dihydro-4,4,5,5-

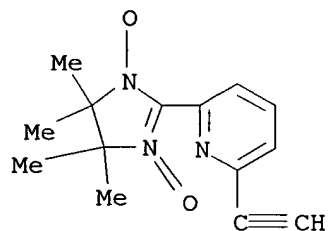
tetramethyl- (9CI) (CA INDEX NAME)



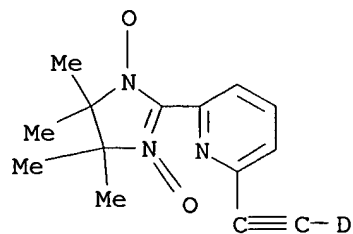
RN 184240-94-6 CAPLUS

CN 1H-Imidazol-1-yloxy, 4,5-dihydro-4,4,5,5-tetramethyl-2-[6-  
[(trimethylsilyl)ethynyl]-2-pyridinyl]-, 3-oxide (9CI) (CA INDEX NAME)

RN 184240-98-0 CAPLUS

CN 1H-Imidazol-1-yloxy, 2-(6-ethynyl-2-pyridinyl)-4,5-dihydro-4,4,5,5-  
tetramethyl-, 3-oxide (9CI) (CA INDEX NAME)

RN 261527-71-3 CAPLUS

CN 1H-Imidazol-1-yloxy, 2-[6-(ethynyl-d)-2-pyridinyl]-4,5-dihydro-4,4,5,5-  
tetramethyl-, 3-oxide (9CI) (CA INDEX NAME)



L6 ANSWER 13 OF 50 CAPLUS COPYRIGHT 2002 ACS

AN 1999:321058 CAPLUS

DN 131:73247

TI Structure - magnetism relationships in .alpha.-nitronyl nitroxide radicals

AU Deumal, Merce; Cirujeda, Joan; Veciana, Jaume; Novoa, Juan J.

CS Departament de Quimica Fisica, Facultat de Quimica Universitat de Barcelona, Barcelona, E-08028, Spain

SO Chemistry--A European Journal (1999), 5(5), 1631-1642

CODEN: CEUJED; ISSN: 0947-6539

PB Wiley-VCH Verlag GmbH

DT Journal

LA English

AB The crystal packing of .alpha.-nitronyl nitroxide radicals with dominant ferromagnetic or antiferromagnetic interactions is analyzed in order to test if there are characteristic orientations of their functional groups that can be assocd. with these magnetic interactions. From a large cryst.-structure database of compds. contg. .alpha.-nitronyl nitroxide radical units (143 structures), 23 representative cases with dominant intermol. ferromagnetic interactions and 24 cases exhibiting dominant antiferromagnetic interactions were selected. The spatial distribution of the N-O.cntdot..cntdot..cntdot.O-N, C(sp3)-H.cntdot..cntdot..cntdot.ON, and C(sp2)-H.cntdot..cntdot..cntdot.ON contacts whose distance is <10 .ANG. was analyzed, with special emphasis on the 0-5-.ANG. region for the N-O.cntdot..cntdot..cntdot.O-N contacts and 0-3.8-.ANG. for the C-H-H.cntdot..cntdot..cntdot.O-N contacts. No correspondence is found between the presence of intermol. ferro- or antiferromagnetic interactions and the geometry of any of the previous isolated contacts. Therefore, there is a need to change the way in which some structure-magnetism correlations are obtained in .alpha.-nitronyl nitroxide crystals. These results also show that the intermol. magnetic interaction is related to the relative orientation of the nearby mols. as a whole, i.e., with the collection of intermol. contacts made by them.

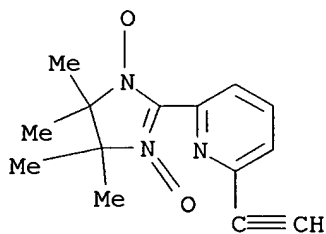
IT **184240-98-0**

RL: PRP (Properties)

(structure-magnetism relationships in .alpha.-nitronyl nitroxide radicals)

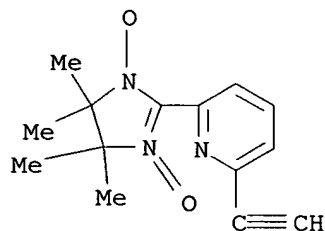
RN 184240-98-0 CAPLUS

CN 1H-Imidazol-1-yloxy, 2-(6-ethynyl-2-pyridinyl)-4,5-dihydro-4,4,5,5-tetramethyl-, 3-oxide (9CI) (CA INDEX NAME)



RE.CNT 96 THERE ARE 96 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

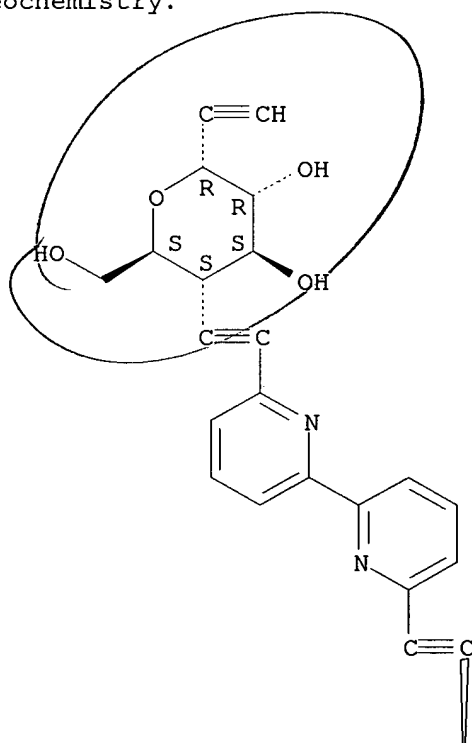
L6 ANSWER 14 OF 50 CAPLUS COPYRIGHT 2002 ACS  
 AN 1999:311674 CAPLUS  
 DN 131:52937  
 TI Investigating molecular magnetism with polarized neutrons  
 AU Ressouche, E.  
 CS SPSMS-MDN, Departement de Recherche Fondamentale sur la Matiere Condensee,  
 CEA/Grenoble, Grenoble, 38054, Fr.  
 SO Physica B: Condensed Matter (Amsterdam) (1999), 267-268, 27-36  
 CODEN: PHYBE3; ISSN: 0921-4526  
 PB Elsevier Science B.V.  
 DT Journal; General Review  
 LA English  
 AB A review with 16 refs. The detn. of magnetization d. distributions using  
 polarized neutron diffraction has played a key role during the last 15 yr  
 in the emerging field of mol. magnetism. In the present article, an  
 introduction to this branch of material science and to the exptl.  
 technique is given. The data treatment methods are briefly reviewed and  
 some recent results are presented. A particular attention is given to the  
 members of the nitronyl nitroxide free radicals family, which are widely  
 used in the construction of org. magnetically ordered materials. The main  
 features of the magnetization d. in isolated radicals are presented. Spin  
 polarization and spin delocalization effects encountered in this class of  
 compds. are discussed. Then the magnetic interactions with neighboring  
 mols. can propagate through H bonds or through intermediate atoms and they  
 modify the main features found in isolated species. In the case of a  
 direct coordination to a transition metal ion, drastic can be the  
 modifications on the spin d., depending on the strength of the magnetic  
 couplings.  
 IT **184240-98-0**  
 RL: PRP (Properties)  
 (NitPy(C.tplbond.C-H); investigating mol. magnetism with polarized  
 neutrons in)  
 RN 184240-98-0 CAPLUS  
 CN 1H-Imidazol-1-yloxy, 2-(6-ethynyl-2-pyridinyl)-4,5-dihydro-4,4,5,5-  
 tetramethyl-, 3-oxide (9CI) (CA INDEX NAME)



RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

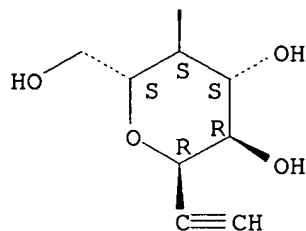
L6 ANSWER 15 OF 50 CAPLUS COPYRIGHT 2002 ACS  
 AN 1999:309462 CAPLUS  
 DN 131:32109  
 TI Oligosaccharide analogs of polysaccharides. Part 18. Synthesis of cyclic hybrids of 2,2'-bipyridine and acetylenosaccharides  
 AU Burli, Roland; Vasella, Andrea  
 CS Laboratorium Organische Chemie, ETH-Zentrum, Zurich, CH-8092, Switz.  
 SO Helvetica Chimica Acta (1999), 82(4), 485-493  
 CODEN: HCACAV; ISSN: 0018-019X  
 PB Verlag Helvetica Chimica Acta  
 DT Journal  
 LA English  
 OS CASREACT 131:32109  
 AB The efficient construction of cyclic hybrids of 2,2'-bipyridine and acetylenosaccharides from readily available building blocks is reported involving a double Castro-Stephens coupling of an O-protected and an O-unprotected, mono-C-silylated 1,4-cis-diethynylated 1,5-anhydroglucitol to 6,6'-dibromo-2,2'-bipyridine followed by oxidative cyclization of the resulting dialkynes. UV spectra of the C-alkynylated linear and cyclized bipyridines show that these ligands complex a range of metal ions.  
 IT **226930-73-0P**  
 RL: PEP (Physical, engineering or chemical process); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); PROC (Process); RACT (Reactant or reagent)  
 (cyclization and metal complexation)  
 RN 226930-73-0 CAPLUS  
 CN D-glycero-L-gulo-Oct-7-ynitol, 3,3'-([2,2'-bipyridine]-6,6'-diyl)-2,1-ethynediylbis[2,6-anhydro-3,7,8-trideoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



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IT 226930-73-0DP, metal complexes

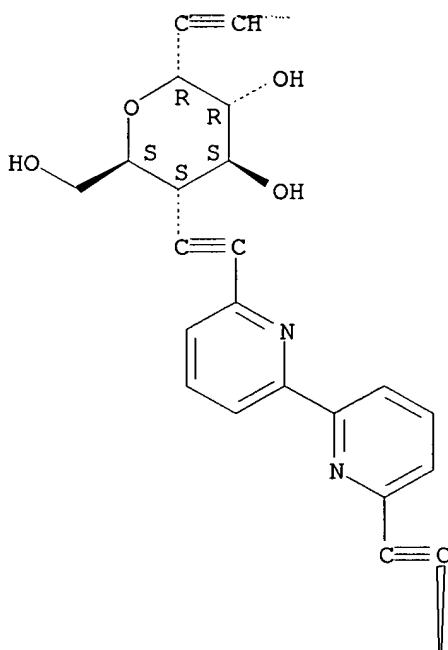
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
(cyclization and metal complexation)

RN 226930-73-0 CAPLUS

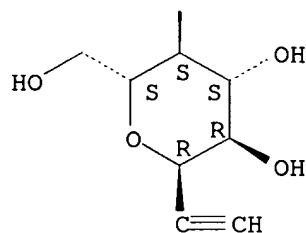
CN D-glycero-L-gulo-Oct-7-ynitol, 3,3'-([2,2'-bipyridine]-6,6'-diyl-di-2,1-ethynediyl)bis[2,6-anhydro-3,7,8-trideoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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IT 226930-61-6P 226930-71-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

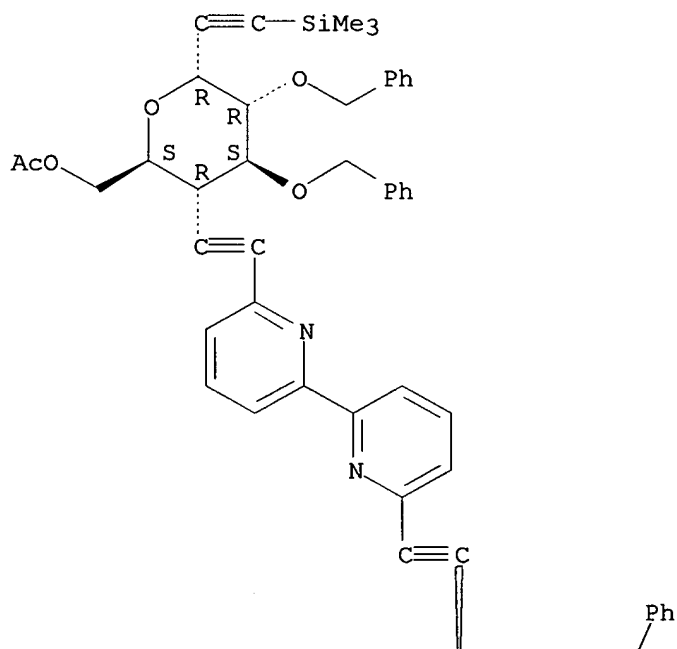
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(prepn. of cyclic hybrids of bipyridine and acetylenosaccharides)
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RN 226930-61-6 CAPLUS

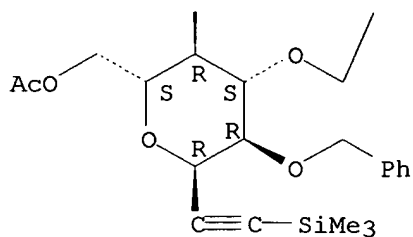
CN D-glycero-L-gulo-Oct-7-ynitol, 3,3'-([2,2'-bipyridine]-6,6'-diyl-di-2,1-ethynediyl)bis[2,6-anhydro-3,7,8-trideoxy-4,5-bis-O-(phenylmethyl)-8-(trimethylsilyl)-, 1,1'-diacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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PAGE 2-A

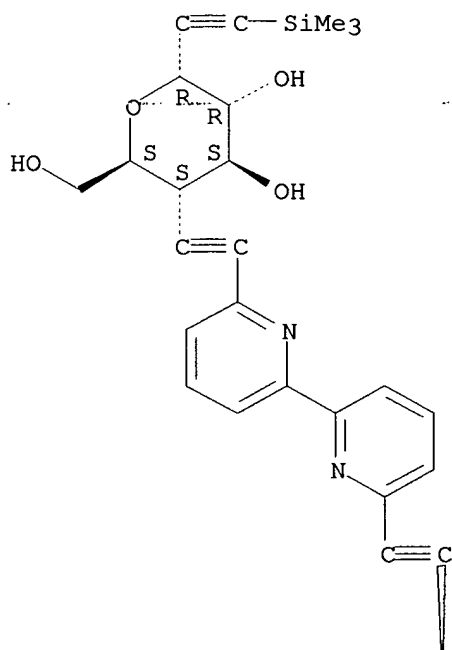


RN 226930-71-8 CAPLUS

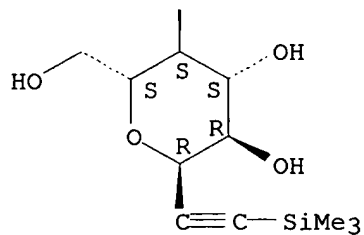
CN D-glycero-L-gulo-Oct-7-ynitol, 3,3'-([2,2'-bipyridine]-6,6'-diyl-di-2,1-ethynediyl)bis[2,6-anhydro-3,7,8-trideoxy-8-(trimethylsilyl)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

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PAGE 2-A



IT 226930-65-0P

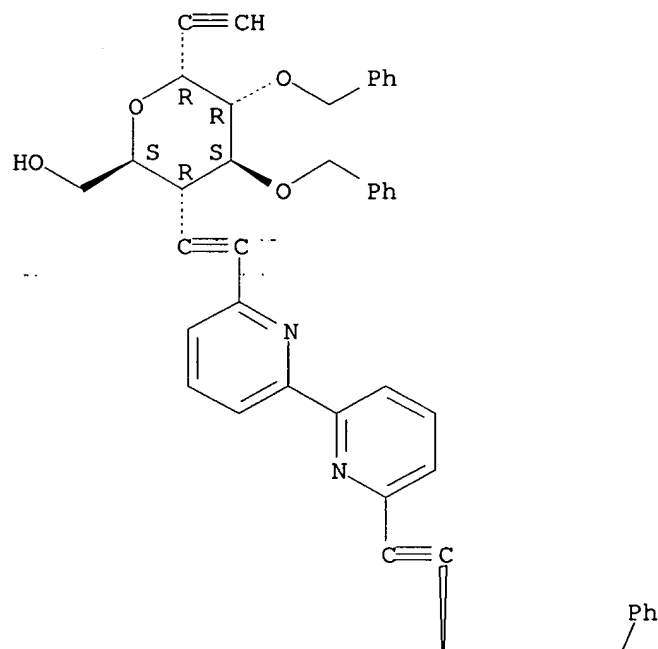
RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (temp.-dependence of sp. rotation in prepn. of cyclic hybrids of bipyridine and acetylenosaccharides)

RN 226930-65-0 CAPLUS

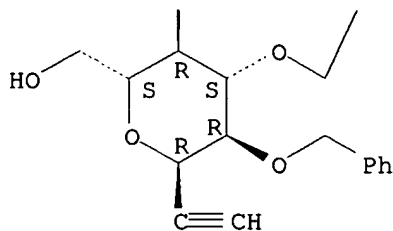
CN D-glycero-L-gulo-Oct-7-ynitol, 3,3'-([2,2'-bipyridine]-6,6'-diyl-di-2,1-ethynediyl)bis[2,6-anhydro-3,7,8-trideoxy-4,5-bis-O-(phenylmethyl)- (9CI)  
 (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

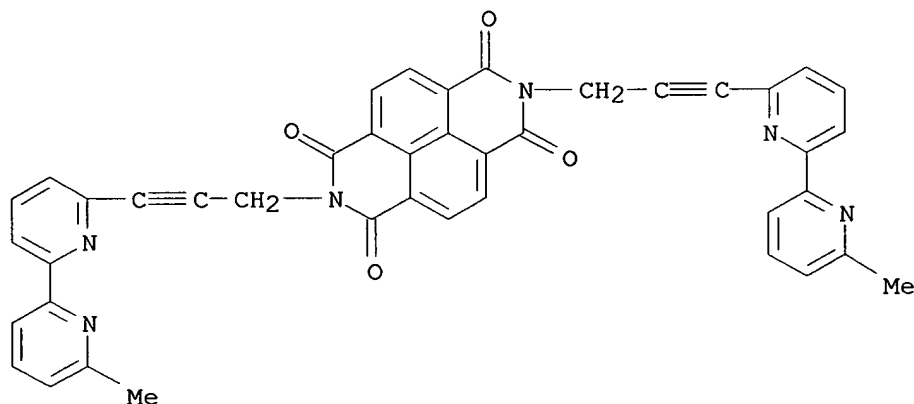


PAGE 2-A



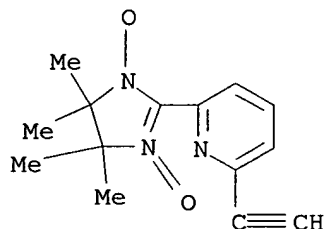
RE.CNT 54 THERE ARE 54 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 21 OF 50 CAPLUS COPYRIGHT 2002 ACS  
 AN 1998:172272 CAPLUS  
 DN 128:257532  
 TI Reversible five-component assembly of a [2]catenane from a chiral metallomacrocycle and a dinaphtho-crown ether  
 AU Try, Andrew C.; Harding, Margaret M.; Hamilton, Darren G.; Sanders, Jeremy K. M.  
 CS School of Chemistry, University of Sydney, Sydney, 2006, Australia  
 SO Chemical Communications (Cambridge) (1998), (6), 723-724  
 CODEN: CHCOFS; ISSN: 1359-7345  
 PB Royal Society of Chemistry  
 DT Journal  
 LA English  
 AB Addn. of a dinaphtho-crown ether to the components of a chiral metallomacrocycle affords a [2]catenane as the exclusive thermodyn. product; the reversible assembly process is driven by a combination of zinc(II)-bipyridyl ligation and .pi.-donor/.pi.-acceptor interactions between the electronically complementary arom. components.  
 IT **169696-43-9**  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reversible five-component assembly of a catenane from a chiral metallomacrocycle and a dinaphtho-crown ether)  
 RN 169696-43-9 CAPLUS  
 CN Benzo[lmn][3,8]phenanthroline-1,3,6,8(2H,7H)-tetrone, 2,7-bis[3-(6'-methyl[2,2'-bipyridin]-6-yl)-2-propynyl]- (9CI) (CA INDEX NAME)

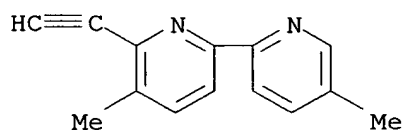




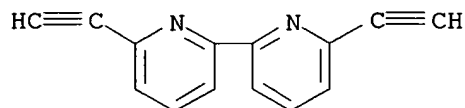
L6 ANSWER 23 OF 50 CAPLUS COPYRIGHT 2002 ACS  
 AN 1997:450692 CAPLUS  
 DN 127:184601  
 TI Spin density in the free radical NitPy(C.tplbond.C-H)  
 AU Pontillon, Y.; Ressouche, E.; Romero, F.; Schweizer, J.; Ziessel, R.  
 CS DRFMC/SPSMS-MDN, CEA Grenoble, Grenoble, 38054, Fr.  
 SO Physica B: Condensed Matter (Amsterdam) (1997), 234-236, 788-789  
 CODEN: PHYBE3; ISSN: 0921-4526  
 PB Elsevier  
 DT Journal  
 LA English  
 AB The nitronyl nitroxide compd. NitPy(C.tplbond.C-H) (space group P21/n) crystallizes in chains with mols. connected via an H bond. Each mol. carries a delocalized,  $s = 1/2$ , unpaired electron. The intrachain magnetic interactions are pos. The authors have studied the spin d. distribution of this radical by polarized neutron diffraction. Both the spin d. population on the H, and the depletion of spin d. on the related O, give evidence that the H bond is involved in the path of the ferromagnetic interactions.  
 IT **184240-98-0**  
 RL: PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process)  
 (spin d. in)  
 RN 184240-98-0 CAPLUS  
 CN 1H-Imidazo[1-*b*]pyridine, 2-(6-ethynyl-2-pyridinyl)-4,5-dihydro-4,4,5,5-tetramethyl-, 3-oxide (9CI) (CA INDEX NAME)



L6 ANSWER 24 OF 50 CAPLUS COPYRIGHT 2002 ACS  
 AN 1997:180899 CAPLUS  
 DN 126:157372  
 TI Construction of Preorganized Polytopic Ligands Via Palladium-Promoted Cross-Coupling Reactions  
 AU Grosshenny, Vincent; Romero, Francisco M.; Ziessel, Raymond  
 CS Laboratoire de Chimie d'Electronique et de Photonique Moleculaires, Ecole Chimie Polymeres, Strasbourg, 67008, Fr.  
 SO Journal of Organic Chemistry (1997), 62(5), 1491-1500  
 CODEN: JOCEAH; ISSN: 0022-3263  
 PB American Chemical Society  
 DT Journal  
 LA English  
 AB Rigid preorganized multitopic ligands have been designed and synthesized. The Pd(0)-catalyzed cross-coupling reaction between ethynylated derivs. of bipyridine or terpyridine and the corresponding bipyridine or terpyridine halides or triflates provide access to various homo-ditopic, hetero-ditopic, homo-tritopic, and hetero-tritopic ligands bearing acetylene or diphenylacetylene central units in fair to excellent yields. Optimal conditions were found with [Pd(PPh<sub>3</sub>)<sub>2</sub>Cl<sub>2</sub>], CuI in THF and diisopropylamine at room temp., or with [Pd(PPh<sub>3</sub>)<sub>4</sub>] in benzene and diisopropylamine at 80.degree.. When a phenylethynyl group is present in the mol., the relevant conditions involve [Pd(PPh<sub>3</sub>)<sub>4</sub>] in n-propylamine at 60.degree.. Oxidative dimerization of the ethynylated derivs. in the presence of cupric salts and oxygen gives the corresponding homo-ditopic ligands bearing diacetylene or diphenyldiacetylene as a spacer in good yields. These methods provide a practical approach to the rational design of multichelating ligands for coordination of redox and photoactive transition metals.  
 IT **133810-37-4**, 2,2'-Bipyridine, 6-ethynyl-5,5'-dimethyl-  
**133810-42-1**, 2,2'-Bipyridine, 6,6'-diethynyl-  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (preorganized polytopic ligands via palladium-promoted cross-coupling reactions)  
 RN 133810-37-4 CAPLUS  
 CN 2,2'-Bipyridine, 6-ethynyl-5,5'-dimethyl- (9CI) (CA INDEX NAME)



RN 133810-42-1 CAPLUS  
 CN 2,2'-Bipyridine, 6,6'-diethynyl- (9CI) (CA INDEX NAME)

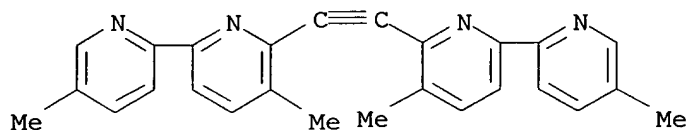


IT **146548-28-9P** **146548-29-0P** **162318-29-8P**  
**162318-30-1P** **162318-31-2P** **162318-32-3P**  
**187026-96-6P**

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preorganized polytopic ligands via palladium-promoted cross-coupling reactions)

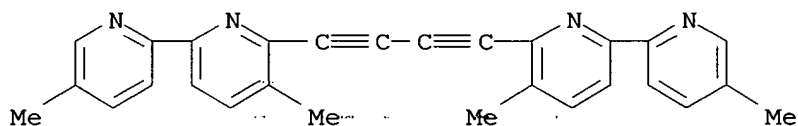
RN 146548-28-9 CAPLUS

CN 2,2'-Bipyridine, 6,6''-(1,2-ethynediyl)bis[5,5'-dimethyl- (9CI) (CA INDEX NAME)



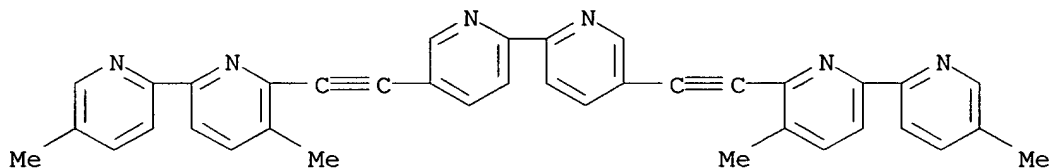
RN 146548-29-0 CAPLUS

CN 2,2'-Bipyridine, 6,6''-(1,3-butadiyne-1,4-diyl)bis[5,5'-dimethyl- (9CI) (CA INDEX NAME)



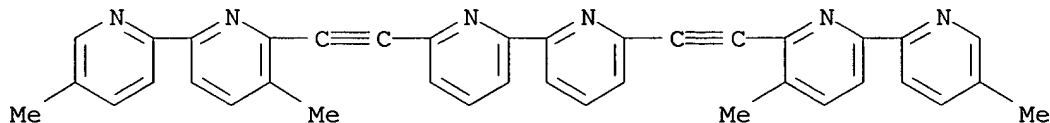
RN 162318-29-8 CAPLUS

CN 2,2'-Bipyridine, 5,5'-bis[(5,5'-dimethyl[2,2'-bipyridin]-6-yl)ethynyl]- (9CI) (CA INDEX NAME)



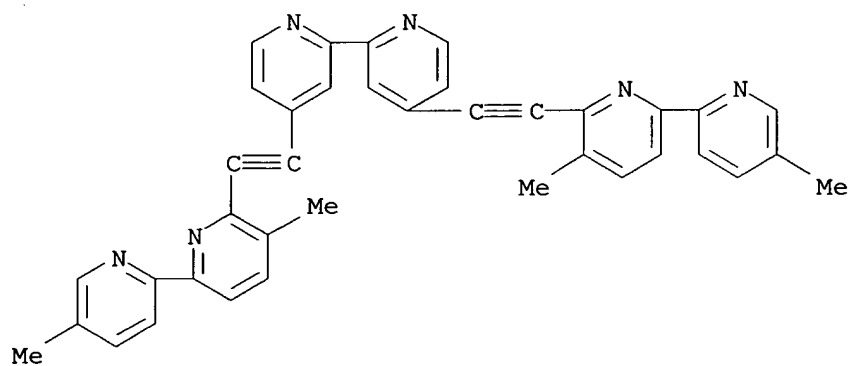
RN 162318-30-1 CAPLUS

CN 2,2'-Bipyridine, 6,6'-bis[(5,5'-dimethyl[2,2'-bipyridin]-6-yl)ethynyl]- (9CI) (CA INDEX NAME)



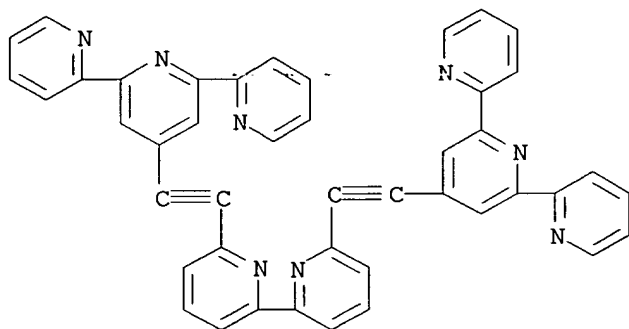
RN 162318-31-2 CAPLUS

CN 2,2'-Bipyridine, 4,4'-bis[(5,5'-dimethyl[2,2'-bipyridin]-6-yl)ethynyl]- (9CI) (CA INDEX NAME)



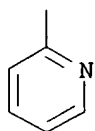
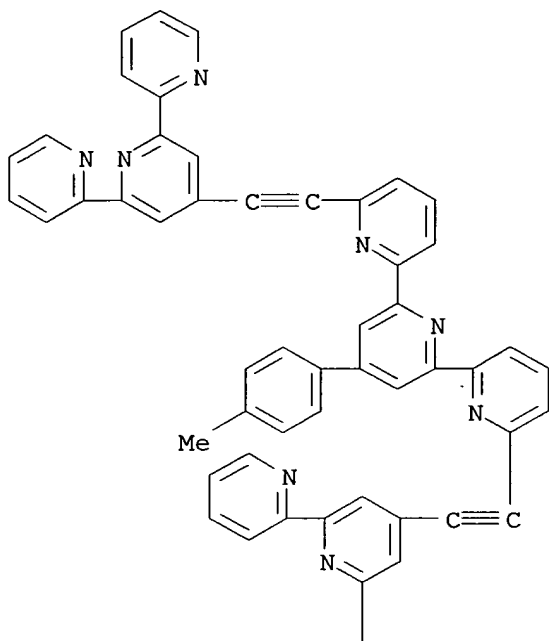
RN 162318-32-3 CAPLUS

CN 2,2':6',2''-Terpyridine, 4',4''''-([2,2'-bipyridine]-6,6'-diyl)-2,1-ethynediylbis- (9CI) (CA INDEX NAME)

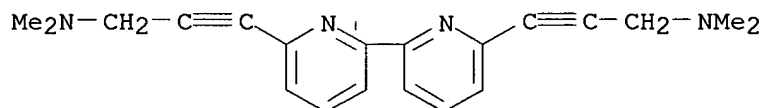


RN 187026-96-6 CAPLUS

CN 2,2':6',2''-Terpyridine, 4'-(4-methylphenyl)-6,6''-bis([2,2':6',2''-terpyridin]-4'-ylethynyl)- (9CI) (CA INDEX NAME)



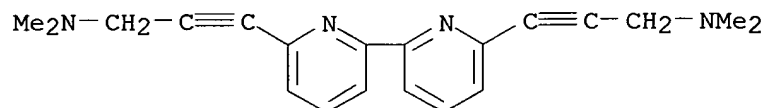
L6 ANSWER 25 OF 50 CAPLUS COPYRIGHT 2002 ACS  
 AN 1996:710656 CAPLUS  
 DN 126:41862  
 TI Rapid Phosphodiester Hydrolysis by an Ammonium-Functionalized Copper(II) Complex. A Model for the Cooperativity of Metal Ions and NH-Acidic Groups in Phosphoryl Transfer Enzymes  
 AU Koevari, Endre; Kraemer, Roland  
 CS Anorganisch-Chemisches Institut, Universitaet Muenster, Muenster, D-48149, Germany  
 SO Journal of the American Chemical Society (1996), 118(50), 12704-12709  
 CODEN: JACSAT; ISSN: 0002-7863  
 PB American Chemical Society  
 DT Journal  
 LA English  
 AB The Cu(II) complexes [(Ln)Cu(NO<sub>3</sub>)<sub>4</sub>.cntdot.2(H<sub>2</sub>O)] (n = 1: 1, n = 2: 2) of the ammonium-functionalized ligands [6,6'-(Me<sub>2</sub>HNCH<sub>2</sub>C.tplbond.C)<sub>2</sub>bpy]<sub>2</sub><sup>+</sup> (L1) and [6,6'-(Me<sub>3</sub>NCH<sub>2</sub>C.tplbond.C)<sub>2</sub>bpy]<sub>2</sub><sup>+</sup> (L2) were prepd. Hydrolysis of the activated phosphodiester bis(p-nitrophenyl) phosphate (BNPP) by these complexes in EtOH-H<sub>2</sub>O (19:1) at 20.degree. was studied. The rate consts. for cleavage of the bound phosphodiester at pH 6.6 are k<sub>cat</sub> = 4.4(±.0.4) .times. 10<sup>-3</sup> s<sup>-1</sup> for (L1)Cu and k<sub>cat</sub> = 4(±.1) .times. 10<sup>-6</sup> s<sup>-1</sup> for (L2)Cu. (L1)Cu accelerates hydrolysis of BNPP 4 .times. 10<sup>7</sup>-fold and is 1000 times more reactive than (L2)Cu. Probably the high reactivity of (L1)Cu is related to the interaction of the acidic -NMe<sub>2</sub>H<sup>+</sup> group with the phosphodiester substrate. Bifunctional binding of a phosphate ester by metal coordination and H bonding with one NH<sub>4</sub><sup>+</sup> group is obsd. in the crystallog. characterized complex [(L1)<sub>2</sub>Cu<sub>2</sub>(1,3-.mu.-O<sub>3</sub>POPh)<sub>2</sub>(OH<sub>2</sub>)<sub>2</sub>](NO<sub>3</sub>)<sub>4</sub>.2EtOH.2H<sub>2</sub>O (3). A plausible mechanism of BNPP cleavage by (L1)Cu includes metal-hydroxide attack to the phosphodiester which is doubly activated by coordinative and H bonding. The Cu(II) complex of L1 represents a simple model for the efficient cooperativity of metal ions and NH-acidic amino acid side chains (Lys-NH<sub>4</sub><sup>+</sup>, Arg-guanidinium, His-imidazolium) in enzymes that catalyze the cleavage of phosphate di- and monoesters.  
 IT **159644-79-8**, 6,6'-Bis(3-dimethylaminopropynyl)-2,2'-bipyridine  
**159644-80-1**  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (for prepn. of copper bis(dimethylammoniopropynyl)bipyridine nitrate complex)  
 RN 159644-79-8 CAPLUS  
 CN 2-Propyn-1-amine, 3,3'-[2,2'-bipyridine]-6,6'-diylbis[N,N-dimethyl-, (9CI)  
 (CA INDEX NAME)



RN 159644-80-1 CAPLUS  
 CN 2-Propyn-1-amine, 3,3'-[2,2'-bipyridine]-6,6'-diylbis[N,N-dimethyl-,  
 dinitrate (9CI) (CA INDEX NAME)

CM 1

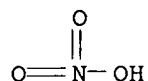
CRN 159644-79-8  
 CMF C20 H22 N4



CM 2

CRN 7697-37-2

CMF H N O3



IT **184783-26-4P**, 6,6'-Bis(3-trimethylammoniopropynyl)-2,2'-bipyridine dinitrate

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(for prepn. of copper bis(dimethylammoniopropynyl)bipyridine nitrate complex)

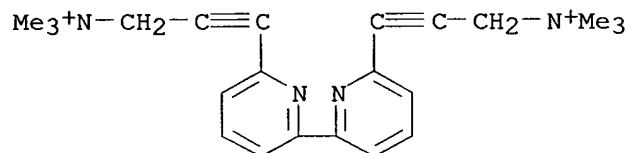
RN 184783-26-4 CAPLUS

CN 2-Propyn-1-aminium, 3,3'-[2,2'-bipyridine]-6,6'-diylbis[N,N,N-trimethyl-, dinitrate (9CI) (CA INDEX NAME)

CM 1

CRN 184783-25-3

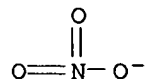
CMF C22 H28 N4



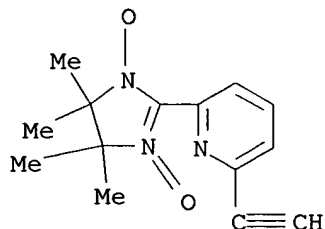
CM 2

CRN 14797-55-8

CMF N O3



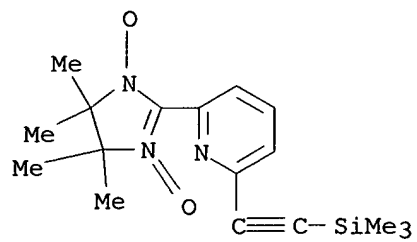
L6 ANSWER 26 OF 50 CAPLUS COPYRIGHT 2002 ACS  
 AN 1996:660563 CAPLUS  
 DN 126:18551  
 TI Synthesis, crystal structure and magnetic properties of novel stable  
 nitronyl-nitroxide pyridine-based radicals (NIT)Py(X)X for Br, C .tplbond.  
 CSiMe3, C .tplbond. CH  
 AU Romero, Francisco M.; Ziessel, Raymond  
 CS Laboratoire chimie, Universite Louis-Pasteur (ULP), Strasbourg, 67008, Fr.  
 SO New Journal of Chemistry (1996), 20(9), 919-924  
 CODEN: NJCHE5; ISSN: 1144-0546  
 PB Gauthier-Villars  
 DT Journal  
 LA English  
 OS CASREACT 126:18551  
 AB The synthesis of hybrid nitronyl-nitroxide pyridine-based radicals has  
 been achieved by the use of an original protocol based on a Pd(O)  
 cross-coupling reaction between the (NIT)Py(Br) radical and Me3SiC  
 .tplbond. CH. The (NIT)Py(C .tplbond. CH) radical 3, obtained from the  
 radical (NIT)Py(C .tplbond. CSiMe3) 2, forms infinite zigzag chains of  
 mols. linked by hydrogen bonds. The magnetic susceptibility measurements  
 show that radicals 1 and 2 are coupled antiferromagnetically while the  
 magnetic behavior of 3 was best analyzed in terms of a one-dimensional  
 Heisenberg chain model for ferromagnetically coupled linear arrays of  
 spins 1/2. The best-fit data are obtained by considering an intrachain  
 ferromagnetic interaction of  $J = +1.40$  K and a weak interchain  
 antiferromagnetic interaction of  $zj' = -0.27$  K.  
 IT **184240-98-0P**  
 RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP  
 (Preparation); RACT (Reactant or reagent)  
 (crystallog.; prepn., crystal structure and magnetic properties of  
 stable nitronyl-nitroxide pyridine-based radicals (NIT)Py(X) (X = Br,  
 C.tplbond.CSiMe3, C.tplbond.CH))  
 RN 184240-98-0 CAPLUS  
 CN 1H-Imidazol-1-yloxy, 2-(6-ethynyl-2-pyridinyl)-4,5-dihydro-4,4,5,5-  
 tetramethyl-, 3-oxide (9CI) (CA INDEX NAME)



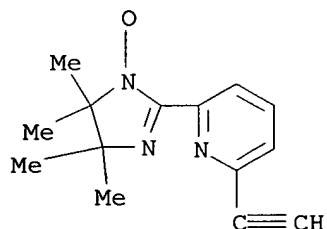
IT **184240-94-6P**  
 RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP  
 (Preparation); RACT (Reactant or reagent)  
 (prepn., crystal structure and magnetic properties of stable  
 nitronyl-nitroxide pyridine-based radicals (NIT)Py(X) (X = Br,  
 C.tplbond.CSiMe3, C.tplbond.CH))  
 RN 184240-94-6 CAPLUS  
 CN 1H-Imidazol-1-yloxy, 4,5-dihydro-4,4,5,5-tetramethyl-2-[6-  
 [(trimethylsilyl)ethynyl]-2-pyridinyl]-, 3-oxide (9CI) (CA INDEX NAME)



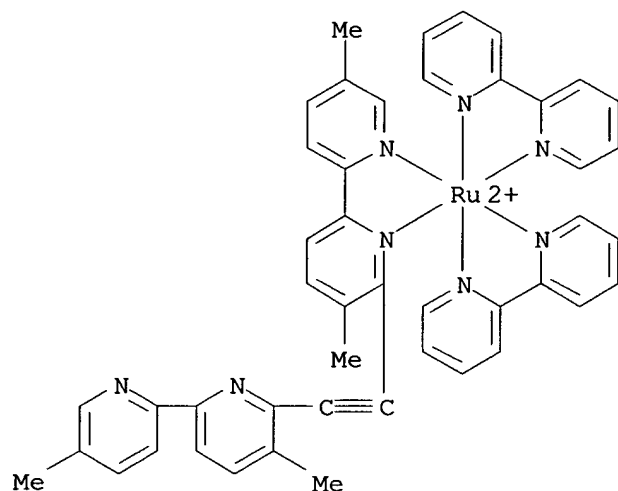
10/087,066



L6 ANSWER 27 OF 50 CAPLUS COPYRIGHT 2002 ACS  
 AN 1996:656029 CAPLUS  
 DN 125:328610  
 TI Ferromagnetic order in a novel imino nitroxide (IT)Py(C.tplbond.CH)  
 radical derived from 2-ethynylpyridine  
 AU Romero, Francisco M.; Ziessel, Raymond; Drillon, Marc; Tholence, Jean  
 Louis; Paulsen, Carley; Kyritsakas, Nathalie; Fisher, Jean  
 CS Laboratoire Chimie Electronique Photoniques Moleculaires, Ecole Chimie  
 Polymeres Materiaux, Strasbourg, F-67008, Fr.  
 SO Advanced Materials (Weinheim, Germany) (1996), 8(10), 826-829  
 CODEN: ADVMEW; ISSN: 0935-9648  
 PB VCH  
 DT Journal  
 LA English  
 AB Preliminary results on the synthesis, crystal structure, and magnetic  
 properties of the nitroxide radical I, prepd. in 6 steps starting from  
 6-bromopyridine-2-carbaldehyde via 6-ethynylpyridine-2-carbaldehyde, are  
 reported.  
 IT **183439-03-4P**  
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
 (prepn., crystal structure, and ferromagnetic properties of  
 ethynylpyridine-derived imino nitroxide radical)  
 RN 183439-03-4 CAPLUS  
 CN 1H-Imidazol-1-yloxy, 2-(6-ethynyl-2-pyridinyl)-4,5-dihydro-4,4,5,5-  
 tetramethyl- (9CI) (CA INDEX NAME)



L6 ANSWER 28 OF 50 CAPLUS COPYRIGHT 2002 ACS  
 AN 1996:616292 CAPLUS  
 DN 125:342509  
 TI Electron Delocalization in Ruthenium(II) and Osmium(II) 2,2'-Bipyridyl  
 Complexes Formed from Ethynyl-Bridged Ditopic Ligands  
 AU Grosshenny, Vincent; Harriman, Anthony; Romero, Francisco M.; Ziessel,  
 Raymond  
 CS Laboratoire de Chimie, Ecole Europeenne de Chimie, Strasbourg, F-67008,  
 Fr.  
 SO Journal of Physical Chemistry (1996), 100(44), 17472-17484  
 CODEN: JPCHAX; ISSN: 0022-3654  
 PB American Chemical Society  
 DT Journal  
 LA English  
 AB Photophys. and electrochem. properties have been recorded for a series of  
 mono- and binuclear ruthenium(II) and osmium(II) 2,2'-bipyridyl complexes  
 that contain an ethynyl-bridged ditopic ligand. In particular, the  
 electrochem. properties are indicative of electron delocalization over an  
 extended  $\pi^*$ -orbital in the  $\pi$ -radical anions. The site of attachment  
 of the ethynyl substituent to the 2,2'-bipyridyl ring affects the various  
 properties, esp. absorption and emission spectral maxima. In most cases,  
 the rates of nonradiative deactivation of the lowest-energy triplet  
 excited states are slower than expected for a corresponding complex not  
 possessing a conjugated substituent. This effect is rationalized in terms  
 of electron delocalization over part of the ditopic ligand within the  
 triplet state and its significance depends markedly on the triplet energy  
 of the complex in question. The lowest-energy triplet mixes to some  
 extent with an upper-lying triplet that is more strongly coupled to the  
 ground state. According to the nature of the metal complex, this  
 higher-energy triplet might originate from (i) charge transfer from metal  
 center to parent ligand, (ii) a  $\pi, \pi^*$  state localized on the ditopic  
 ligand, or (iii) a metal-centered excited state. For the OsII complexes  
 at 77 K electron delocalization over an extended  $\pi^*$ -orbital is  
 accompanied by a redn. in the amt. of nuclear displacement between triplet  
 and ground states and by a smaller vibronic coupling matrix element  
 relative to the parent complex. These two factors combine, within the  
 framework of the energy-gap law, to decrease the rate at which electronic  
 energy can be dissipated among medium-frequency vibrational (i.e., -C:C-  
 and -C:N-) modes. This realization permits a quant. explanation of the  
 measured rate consts. for nonradiative decay of the triplet excited states  
 of these ethynyl-substituted metal complexes.  
 IT **148353-62-2P 183497-78-1P**  
 RL: PEP (Physical, engineering or chemical process); PNU (Preparation,  
 unclassified); PRP (Properties); PREP (Preparation); PROC (Process)  
 (photophys. and electrochem. properties of mono- and binuclear  
 ruthenium(II) and osmium(II) bipyridyl complexes contg. ethynyl-bridged  
 ditopic ligand)  
 RN 148353-62-2 CAPLUS  
 CN Ruthenium(2+), bis(2,2'-bipyridine-N,N') [6,6'-(1,2-ethynediyl)bis[5,5'-  
 dimethyl-2,2'-bipyridine]-N,N']-, (OC-6-33)-, bis[hexafluorophosphate(1-)]  
 (9CI) (CA INDEX NAME)  
 CM 1  
 CRN 148353-61-1  
 CMF C46 H38 N8 Ru  
 CCI CCS

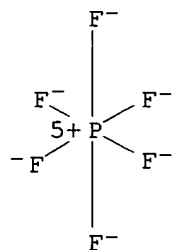


CM 2

CRN 16919-18-9

CMF F6 P<sup>-</sup>

CCI CCS



RN 183497-78-1 CAPLUS

CN Osmium(2+), bis(2,2'-bipyridine-N,N')[6,6'-(1,2-ethynediyl)bis[5,5'-dimethyl-2,2'-bipyridine]-N,N']-, (OC-6-33)-, bis[hexafluorophosphate(1-)] (9CI) (CA INDEX NAME)

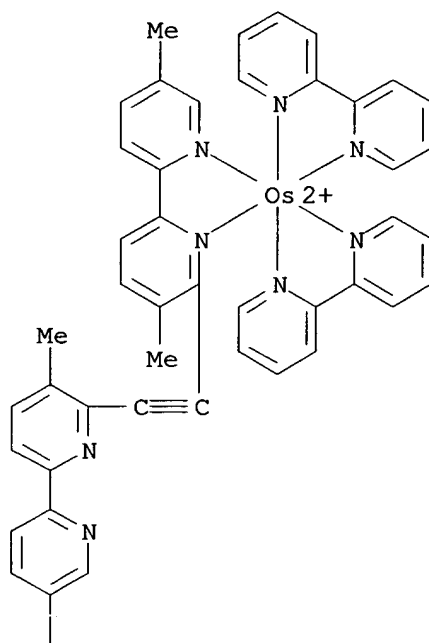
CM 1

CRN 183497-77-0

CMF C46 H38 N8 Os

CCI CCS

PAGE 1-A



PAGE 2-A

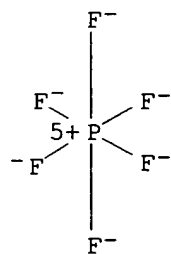


CM 2

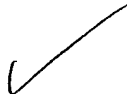
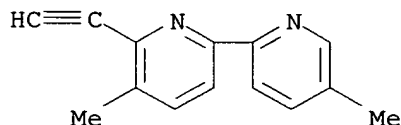
CRN 16919-18-9

CMF F6 P

CCI CCS

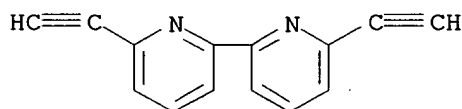


L6 ANSWER 30 OF 50 CAPLUS COPYRIGHT 2002 ACS  
 AN 1996:182531 CAPLUS  
 DN 124:343062  
 TI Stepwise construction of polyalkyne modules grafted on oligopyridine synthons  
 AU Ziessel, Raymond; Suffert, Jean  
 CS Laboratoire Chimie, Ecole Europeenne des Hautes Etudes des Industries Chimiques de Strasbourg, Strasbourg, 67008, Fr.  
 SO Tetrahedron Letters (1996), 37(12), 2011-14  
 CODEN: TELEAY; ISSN: 0040-4039  
 PB Elsevier  
 DT Journal  
 LA English  
 AB The stepwise homologation of the ethynylpyridines, ethynyl-2,2'-bipyridines, and ethynyl-2,2':6',6''-terpyridines with bromoethynyl(triethyl)silane using the Chodkiewicz method was reported. Chelating ligands bearing one or two triethylsilylbutadiyne, one or two triethylsilylhexatriyne subunits were synthesized and fully characterized.  
 IT **133810-37-4 133810-42-1**  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (prepn. of (polyalkynyl)oligopyridines via Chodkiewicz alkynylation)  
 RN 133810-37-4 CAPLUS  
 CN 2,2'-Bipyridine, 6-ethynyl-5,5'-dimethyl- (9CI) (CA INDEX NAME)

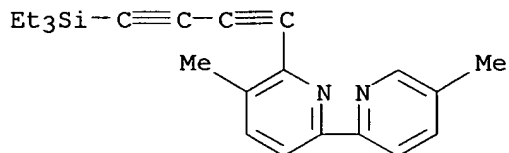


*Same as 29*

RN 133810-42-1 CAPLUS  
 CN 2,2'-Bipyridine, 6,6'-diethynyl- (9CI) (CA INDEX NAME)

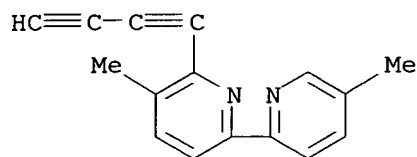


IT **176715-54-1P 176715-55-2P 176715-59-6P 176715-60-9P**  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (prepn. of (polyalkynyl)oligopyridines via Chodkiewicz alkynylation)  
 RN 176715-54-1 CAPLUS  
 CN 2,2'-Bipyridine, 5,5'-dimethyl-6-[4-(triethylsilyl)-1,3-butadiynyl]- (9CI) (CA INDEX NAME)



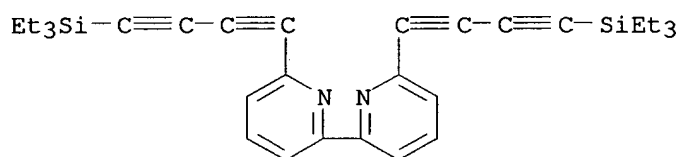
RN 176715-55-2 CAPLUS

CN 2,2'-Bipyridine, 6-(1,3-butadiynyl)-5,5'-dimethyl- (9CI) (CA INDEX NAME)



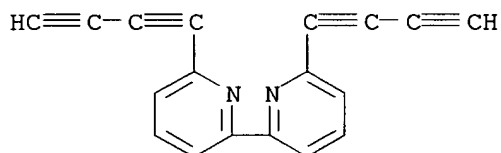
RN 176715-59-6 CAPLUS

CN 2,2'-Bipyridine, 6,6'-bis[4-(triethylsilyl)-1,3-butadiynyl]- (9CI) (CA INDEX NAME)



RN 176715-60-9 CAPLUS

CN 2,2'-Bipyridine, 6,6'-di-1,3-butadiynyl- (9CI) (CA INDEX NAME)

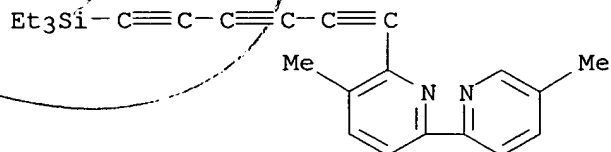


IT 176715-56-3P 176715-61-0P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of (polyalkynyl)oligopyridines via Chodkiewicz alkylation)

RN 176715-56-3 CAPLUS

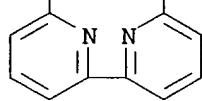
CN 2,2'-Bipyridine, 5,5'-dimethyl-6-[6-(triethylsilyl)-1,3,5-hexatriynyl]- (9CI) (CA INDEX NAME)



RN 176715-61-0 CAPLUS

CN 2,2'-Bipyridine, 6,6'-bis[6-(triethylsilyl)-1,3,5-hexatriynyl]- (9CI) (CA INDEX NAME)

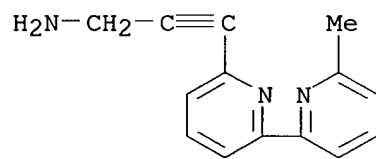
10/087,066



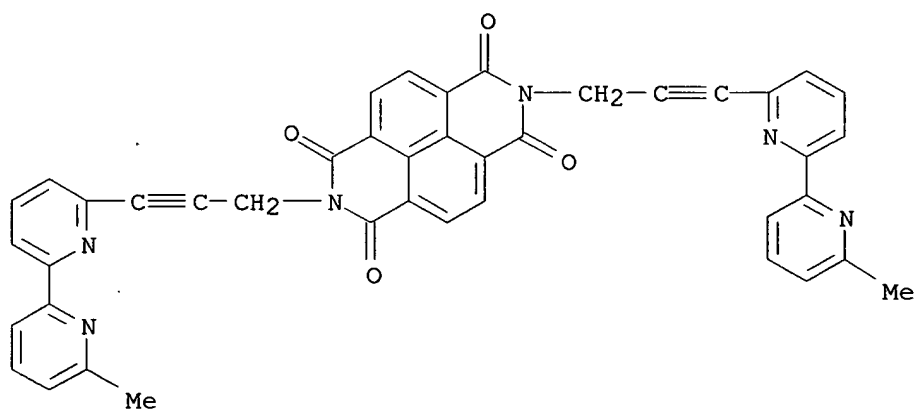
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L6 ANSWER 32 OF 50 CAPLUS COPYRIGHT 2002 ACS  
 AN 1995:768726 CAPLUS  
 DN 123:304986  
 TI Guest-induced assembly of a chiral [2 + 2] metallomacrocycle  
 AU Bilyk, Alexander; Harding, Margaret M.  
 CS Sch. Chem., Univ. Sydney, 2006, Australia  
 SO Journal of the Chemical Society, Chemical Communications (1995), (16),  
 1697-8  
 CODEN: JCCCAT; ISSN: 0022-4936  
 PB Royal Society of Chemistry  
 DT Journal  
 LA English  
 AB A chiral metallomacrocycle, assembled from two Zn(II) ions and I, and  
 stabilized by inclusion of o-dimethoxybenzene in the cavity, was  
 characterized by NMR spectroscopy.  
 IT **169696-44-0P**  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (for prepn. of bipyridinyl deriv. of naphthalenetetracarboxylic  
 anhydride)  
 RN 169696-44-0 CAPLUS  
 CN 2-Propyn-1-amine, 3-(6'-methyl[2,2'-bipyridin]-6-yl)- (9CI) (CA INDEX  
 NAME)



IT **169696-43-9P**  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (prepn. and complexation with zinc)  
 RN 169696-43-9 CAPLUS  
 CN Benzo[lmn][3,8]phenanthroline-1,3,6,8(2H,7H)-tetrone, 2,7-bis[3-(6'-  
 methyl[2,2'-bipyridin]-6-yl)-2-propynyl]- (9CI) (CA INDEX NAME)



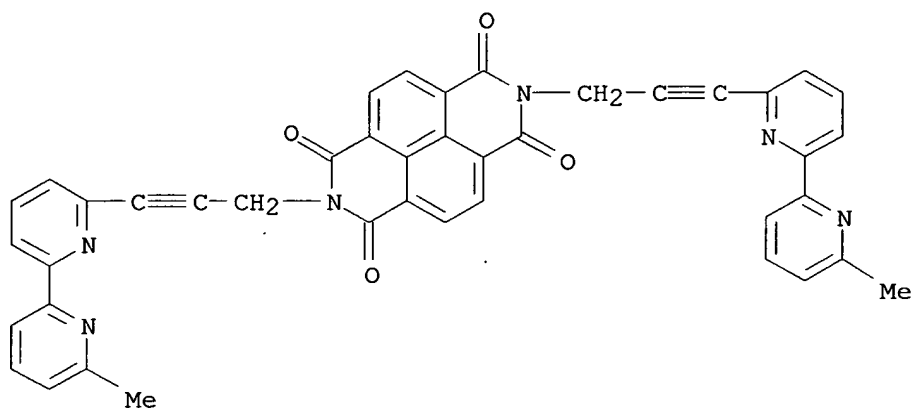
IT **169696-43-9DP**, zinc complex, methoxybenzene and nitrobenzene

inclusion compds.

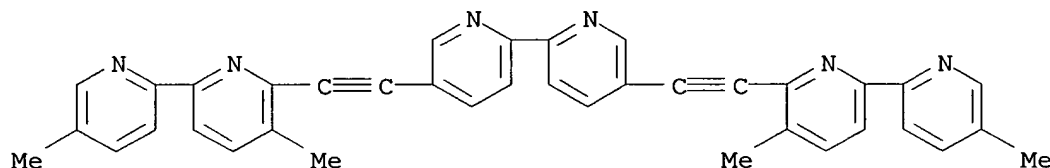
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
(prepn. and stability consts. of)

RN 169696-43-9 CAPLUS

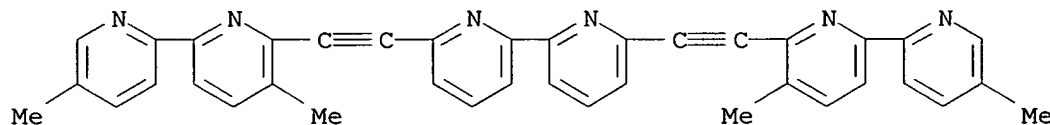
CN Benzo[lmn][3,8]phenanthroline-1,3,6,8(2H,7H)-tetrone, 2,7-bis[3-(6'-methyl[2,2'-bipyridin]-6-yl)-2-propynyl]- (9CI) (CA INDEX NAME)



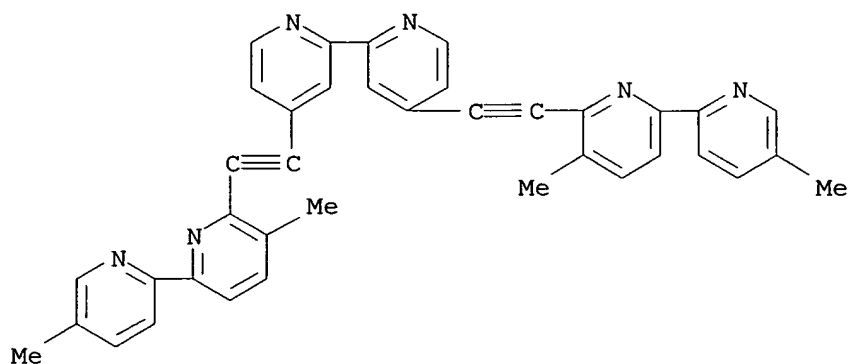
L6 ANSWER 34 OF 50 CAPLUS COPYRIGHT 2002 ACS  
 AN 1995:272296 CAPLUS  
 DN 122:239499  
 TI Preparation of novel mixed tritopic oligopyridine ligands built with  
 chelating spacers and using palladium(0) catalyzed coupling reactions  
 AU Romero, Francisco M.; Ziessel, Raymond  
 CS Laboratoire de Chimie, Institut de Physique et Chimie des Materiaux de  
 Strasbourg, Strasbourg, 67008, Fr.  
 SO Tetrahedron Letters (1994), 35(49), 9203-6  
 CODEN: TELEAY; ISSN: 0040-4039  
 PB Elsevier  
 DT Journal  
 LA English  
 OS CASREACT 122:239499  
 AB The synthesis and characterization of tritopic ligands, e.g. I, obtained  
 by connecting two terpyridines or two bipyridines with a  
 bis-substituted-ethynyl-bipyridine or bis-substituted-ethynyl-  
 phenanthroline spacer are described. Palladium(0) catalyzes the coupling  
 of the bis-ethynyl substituted central spacer with a bromo or a triflate  
 functionalized bipyridine or terpyridine subunit. A novel trinuclear  
 ruthenium(II) complex is also described.  
 IT **162318-29-8P 162318-30-1P 162318-31-2P**  
**162318-32-3P**  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. of)  
 RN 162318-29-8 CAPLUS  
 CN 2,2'-Bipyridine, 5,5'-bis[(5,5'-dimethyl[2,2'-bipyridin]-6-yl)ethynyl]-  
 (9CI) (CA INDEX NAME)



RN 162318-30-1 CAPLUS  
 CN 2,2'-Bipyridine, 6,6'-bis[(5,5'-dimethyl[2,2'-bipyridin]-6-yl)ethynyl]-  
 (9CI) (CA INDEX NAME)

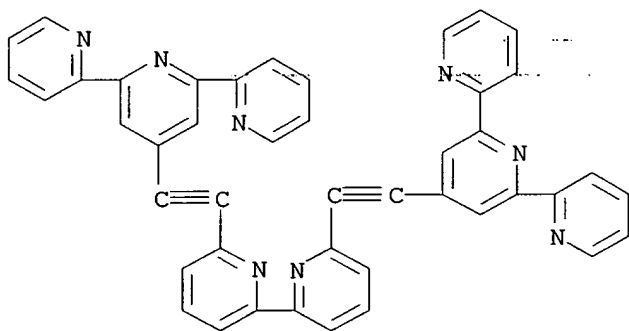


RN 162318-31-2 CAPLUS  
 CN 2,2'-Bipyridine, 4,4'-bis[(5,5'-dimethyl[2,2'-bipyridin]-6-yl)ethynyl]-  
 (9CI) (CA INDEX NAME)



RN 162318-32-3 CAPLUS

CN 2,2':6',2''-Terpyridine, 4',4''''-([2,2'-bipyridine]-6,6'-diyl)-2,1-ethynediylbis- (9CI) (CA INDEX NAME)



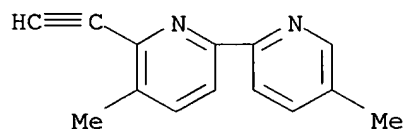
IT 133810-37-4 133810-42-1

RL: RCT (Reactant); RACT (Reactant or reagent)

(prepn. of novel mixed tritopic oligopyridine ligands built with chelating spacers and using palladium catalyzed coupling reactions)

RN 133810-37-4 CAPLUS

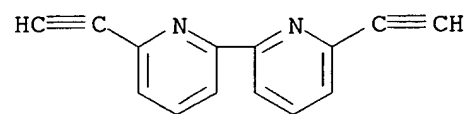
CN 2,2'-Bipyridine, 6-ethynyl-5,5'-dimethyl- (9CI) (CA INDEX NAME)



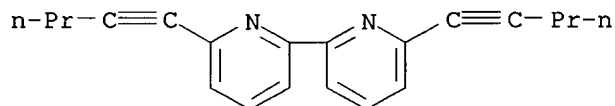
RN 133810-42-1 CAPLUS

CN 2,2'-Bipyridine, 6,6'-diethynyl- (9CI) (CA INDEX NAME)

10/087,066



L6 ANSWER 35 OF 50 CAPLUS COPYRIGHT 2002 ACS  
 AN 1995:203303 CAPLUS  
 DN 122:121721  
 TI Metal complexes of 6,6'-dialkynyl-substituted 2,2'-bipyridine ligands:  
 synthesis and structure of  $[\{6,6'-(\text{CH}_3\text{CH}_2\text{CH}_2\text{C}\equiv\text{C})_2\text{bpy}\}\text{Cu}(\text{Cl})]_2(\mu-\text{Cl})_2$   
 AU Koevari, Endre; Kraemer, Roland  
 CS Anorganisch-Chem. Inst., Univ. Muenster, Muenster, D-48149, Germany  
 SO Zeitschrift fuer Naturforschung, B: Chemical Sciences (1994), 49(10),  
 1324-8  
 CODEN: ZNBSEN; ISSN: 0932-0776  
 PB Verlag der Zeitschrift fuer Naturforschung  
 DT Journal  
 LA German  
 AB The bipyridyldiacetylene 6,6'- $(\text{CH}_3\text{CH}_2\text{CH}_2\text{C}\equiv\text{C})_2\text{bpy}$  (1) was prepd. by  
 Pd catalyzed C-C-coupling reaction of 6,6'-dibromo-2,2'-bipyridine with  
 pentyne. Reaction of 1 with anhyd.  $\text{CuCl}_2$  in MeCN gave the dimeric,  
 chloro-bridged complex  $(1)\text{Cu}(\text{Cl})(\mu-\text{Cl})_2\text{Cu}(\text{Cl})(1)$  (2), which was  
 characterized by x-ray crystallog. The Cu atoms in 2 are  
 square-pyramidally coordinated with normal in-plane Cu-N and Cu-Cl bond  
 distances and one longer, apical bond to the 2nd bipyridyl N atom. The  
 influence of steric hindrance of the bipyridyl 6,6'-substituents on the  
 structure of the complex is discussed.  
 IT **159644-78-7P**  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (prepn. and complexation with copper)  
 RN 159644-78-7 CAPLUS  
 CN 2,2'-Bipyridine, 6,6'-di-1-pentynyl- (9CI) (CA INDEX NAME)



L6 ANSWER 36 OF 50 CAPLUS COPYRIGHT 2002 ACS

AN 1995:182149 CAPLUS

DN 122:22538

TI Zinc(II) complexes of the ammonium-functionalized 2,2'-bipyridine [6,6'-{Me<sub>2</sub>N(H)CH<sub>2</sub>C.tplbond.C}2bpy](ClO<sub>4</sub>)<sub>2</sub> and of the related ligand 6,6'-(CH<sub>3</sub>CH<sub>2</sub>CH<sub>2</sub>C.tplbond.C)2bpy

AU Koevari, Endre; Kraemer, Roland

CS Anorg.-Chem. Inst., Univ. Muenster, Muenster, D-48149, Germany

SO Chemische Berichte (1994), 127(11), 2151-7

CODEN: CHBEAM; ISSN: 0009-2940

PB VCH

DT Journal

LA German

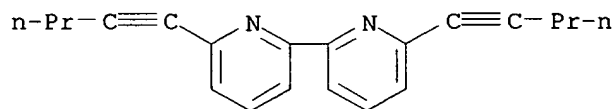
AB The 2,2'-bipyridine deriv. 6,6'-(Me<sub>2</sub>NCH<sub>2</sub>C.tplbond.C)2bpy (1b) was prepd. by Pd-catalyzed C-C coupling reaction. Protonation of 1b with HX yielded [6,6'-{Me<sub>2</sub>N(H)CH<sub>2</sub>C.tplbond.C}2bpy]X<sub>2</sub> (2a, X = NO<sub>3</sub><sup>-</sup>; 2b, X = ClO<sub>4</sub><sup>-</sup>). 2a was characterized by x-ray crystallog. (1A)ZnCl<sub>2</sub> (3) and [(H<sub>2</sub>1b)ZnCl<sub>2</sub>](ClO<sub>4</sub>)<sub>2</sub> (4) were obtained by reaction of 2b and the related ligand 6,6'-(CH<sub>3</sub>CH<sub>2</sub>CH<sub>2</sub>C.tplbond.C)2bpy (1a) with ZnCl<sub>2</sub>. The crystal structure of 3 revealed a tetrahedral coordination of the metal ion by two bipyridine nitrogens and two chloride ligands. Stability consts. in MeCN/H<sub>2</sub>O (19:1) of the 1:1 Zn complexes of 1a and 2a were detd. spectrophotometrically. Complexes of [H<sub>2</sub>1b]<sup>2+</sup> are of potential interest as model systems for metal-NH<sub>4</sub><sup>+</sup> cooperatively in the active site of phosphodiesterase enzymes. In MeCN/H<sub>2</sub>O (19:1) the 1:1-species [(H<sub>2</sub>1b)Zn] promotes the hydrolysis of bis(p-nitrophenyl) phosphate more efficiently than [(1a)Zn].

IT 159644-78-7

RL: RCT (Reactant); RACT (Reactant or reagent)  
(complexation with zinc)

RN 159644-78-7 CAPLUS

CN 2,2'-Bipyridine, 6,6'-di-1-pentynyl- (9CI) (CA INDEX NAME)

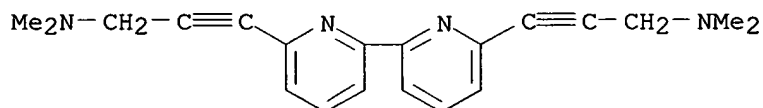


IT 159644-79-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(prepn. and complexation with zinc and protonation of)

RN 159644-79-8 CAPLUS

CN 2-Propyn-1-amine, 3,3'-[2,2'-bipyridine]-6,6'-diylbis[N,N-dimethyl- (9CI)  
(CA INDEX NAME)



IT 159644-80-1P

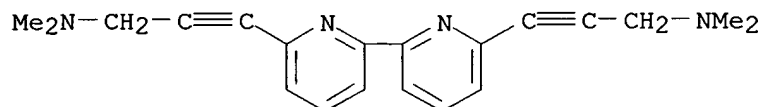
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
(prepn. and crystal structure of)

RN 159644-80-1 CAPLUS  
 CN 2-Propyn-1-amine, 3,3'-[2,2'-bipyridine]-6,6'-diylbis[N,N-dimethyl-,  
 dinitrate (9CI) (CA INDEX NAME)

CM 1

CRN 159644-79-8

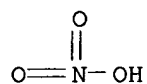
CMF C20 H22 N4



CM 2

CRN 7697-37-2

CMF H N O3



IT **159644-81-2P**  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. of)

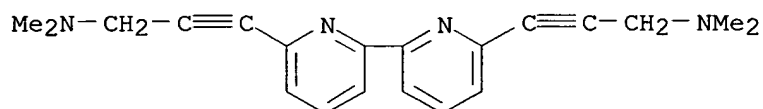
RN 159644-81-2 CAPLUS

CN 2-Propyn-1-amine, 3,3'-[2,2'-bipyridine]-6,6'-diylbis[N,N-dimethyl-,  
 diperchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 159644-79-8

CMF C20 H22 N4



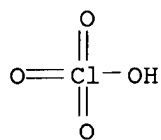
CM 2

CRN 7601-90-3

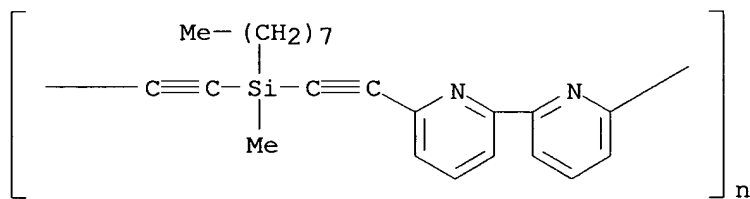
CMF Cl H O4



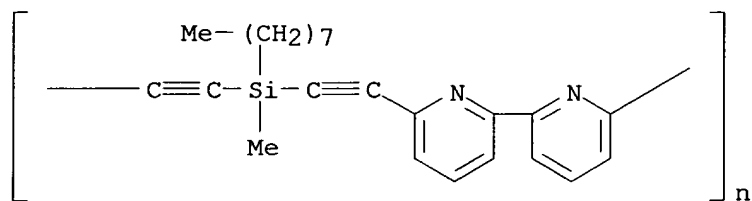
10/087,066



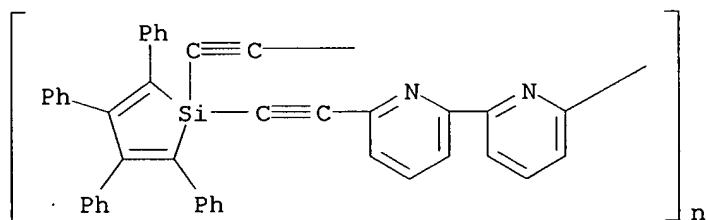
L6 ANSWER 37 OF 50 CAPLUS COPYRIGHT 2002 ACS  
 AN 1994:77782 CAPLUS  
 DN 120:77782  
 TI The palladium-catalyzed cross-coupling polymerization of diethynylmethyl (n-octyl)silane with dihaloarenes  
 AU Corriu, R. J. P.; Douglas, W. E.; Yang, Z. X.  
 CS Unite Mixte, CNRS, Montpellier, 34095, Fr.  
 SO European Polymer Journal (1993), 29(12), 1563-9  
 CODEN: EUPJAG; ISSN: 0014-3057  
 DT Journal  
 LA English  
 AB Polymers of structure  $[-CCSi(MeOOctn)CC-Z-]_n$  ( $Z = 1,4$ -benzene, 4,4'-biphenyl, 9,10-anthracene, 2,7-fluorene, 2,5 and 2,6-pyridine, 6,6'-bipyridine, 2,5-thiophene, 2,6-p-dimethylaminonitrobenzene, 2,6-p-nitroaniline, 2,7-fluorene-9-one, p-tetrafluorobenzene, 2,6-p-nitrophenol or 2,6-p-cyanophenol) were prepd. by reaction of diethynylmethyl(n-octyl)silane with the appropriate hetero(arom.) dibromide or diiodide in the presence of  $(PPh_3)_2PdCl_2$  and CuI. The polymer where  $Z = 6,6'$ -bipyridine reacted with copper(II) trifluoromethanesulfonate to give a copper(II)-contg. polymer, redn. of which with hydrazine afforded the Cu(I)-contg. polymer. The effect of change in reaction conditions on the cross-coupling polymn. was investigated. High mol. wts. are favored by use of: (a) the diiodo- rather than the dibromoarene, (b) an equimolar mixt. of the reactants or excess diethynylsilane, and in most cases (c) toluene cosolvent. The mol. wt. passes through a max. as the total catalyst concn. is increased, or as the individual Cu and Pd catalyst concns. are sep. raised. The presence of tetraethylammonium chloride or high concns. of triphenylphosphine reduces the mol. wt.  
 IT **152194-87-1DP**, copper complexes **152194-87-1P**  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. and characterization of)  
 RN 152194-87-1 CAPLUS  
 CN Poly[[2,2'-bipyridine]-6,6'-diyl-1,2-ethynediyl(methyloctylsilylene)-1,2-ethynediyl] (9CI) (CA INDEX NAME)



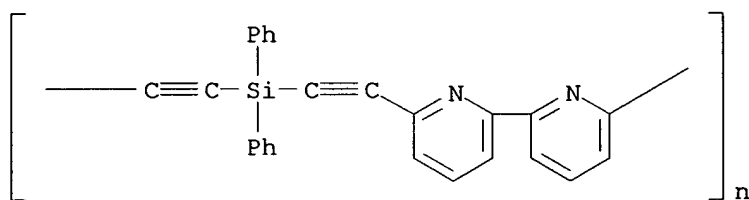
RN 152194-87-1 CAPLUS  
 CN Poly[[2,2'-bipyridine]-6,6'-diyl-1,2-ethynediyl(methyloctylsilylene)-1,2-ethynediyl] (9CI) (CA INDEX NAME)



L6 ANSWER 38 OF 50 CAPLUS COPYRIGHT 2002 ACS  
 AN 1993:581384 CAPLUS  
 DN 119:181384  
 TI Preparation of oligomers containing tetraphenylsilole, acetylene and aromatic groups in the main chain, and incorporation of iron carbonyl  
 AU Corriu, Robert J.-P.; Douglas, William E.; Yang, Zhi-xin  
 CS Unite Mixte CNRS/Rhone Poulenc/UM II, CNRS UMR 44, Universite de Montpellier II Sciences et Techniques du Languedoc, Place Eugene Bataillon, Montpellier, 34095/5, Fr.  
 SO Journal of Organometallic Chemistry (1993), 456(1), 35-9  
 CODEN: JORCAI; ISSN: 0022-328X  
 DT Journal  
 LA English  
 AB Polycarbosilanes with the structure  $[-\text{SiR}_2-\text{C}\equiv\text{C}-\text{Z}-\text{C}\equiv\text{C}-]_n$  ( $\text{R}_2\text{Si} = 2,3,4,5$ -tetraphenyl-1-sila-2,4-cyclopentadiene;  $\text{Z} = 1,4$ -benzene, 4,4'-biphenyl, 9,10-anthracene, 2,7-fluorene, 2,5- and 2,6-pyridine, 6,6'-bipyridine, 2,5-thiophene, 2,6-p-dimethylaminonitrobenzene, 2,6-p-nitroaniline, 2,6-p-nitrophenol, and 2,7-fluoren-9-one) were prepd. by reaction of 1,1-diethynyl-2,3,4,5-tetraphenyl-1-sila-2,4-cyclopentadiene with the appropriate (hetero)arom. dibromide or diiodide in the presence of  $[(\text{PPh}_3)_2\text{PdCl}_2]$  and  $\text{CuI}$ . Exo- and endotherms obsd. in the initial DSC scans were absent in repeat scans. The oligomer where  $\text{Z} = p\text{-C}_6\text{H}_4$  reacted with  $[\text{Fe}(\text{CO})_5]$  under UV irradiation to give an oligomer containing iron carbonyl fragments attached to approx. 30% of the silole groups.  
 IT **150378-94-2P**  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (oligomers, prepn. and characterization of)  
 RN 150378-94-2 CAPLUS  
 CN Poly[[2,2'-bipyridine]-6,6'-diyl-1,2-ethynediyl(2,3,4,5-tetraphenylsilacyclopenta-2,4-dien-1-ylidene)-1,2-ethynediyl] (9CI) (CA INDEX NAME)

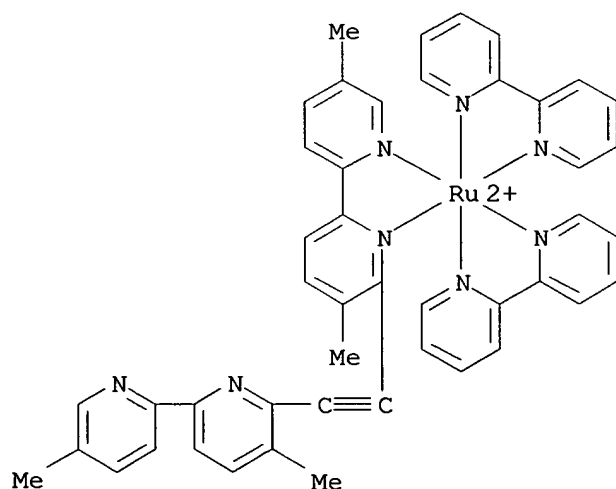


L6 ANSWER 39 OF 50 CAPLUS COPYRIGHT 2002 ACS  
 AN 1993:581376 CAPLUS  
 DN 119:181376  
 TI Preparation of diphenylsilylene polymers containing main-chain acetylene and (hetero)aromatic groups: .chi.(2) nonlinear optical and other properties  
 AU Corriu, Robert J. P.; Douglas, William E.; Yang, Zhi-xin; Karakus, Yusuf; Cross, Graham H.; Bloor, David  
 CS Unite Mixte CNRS/Rhone Poulenc/USTL, CNRS UMR 44, Universite de Montpellier II Sciences et Techniques du Languedoc, Place Eugene Bataillon, Montpellier, 34095/5, Fr.  
 SO Journal of Organometallic Chemistry (1993), 455(1-2), 69-76  
 CODEN: JORCAI; ISSN: 0022-328X  
 DT Journal  
 LA English  
 AB The title polymers, (C.tplbond.CSiPh2C.tplbond.CZ)n (I; Z = p-C6H4, 4,4'-biphenyl, 9,10-anthracenediyl, fluorenediyl, 2,2'-bipyridine-6,6'-diyl, pyridinediyl, 2,5-thiophenediyl, aminonitro-m-phenylene, hydroxynitro-m-phenylene, cyanohydroxy-m-phenylene, or p-C6F4) are prepd. by reaction of SiPh2(C.tplbond.CH)2 with the appropriate arylene dihalide in the presence of (PPh3)2PdCl2, CuI and PPh3, the solvent being either NEt3 or NEt3/PhMe. The av. mol. wts. of the polymers were 2600-34,000. The UV spectra have absorption max. at 250-400 nm. The I (Z = 2-(dimethylamino)-5-nitro-m-phenylene) is .chi.(2) active, r33 is 0.8 pm/V following fixed electrode poling at 17.5 V/.mu.m. The polymers do not melt below the decompn. temp., and all transitions shown in the DSC thermogram at .ltoreq.300.degree. were absent on repeat scans. TGA and thermal dynamic anal. of I (Z = p-C6H4) indicated decompn. commencing at 290.degree. and continuing to .apprx.750.degree.. The residue was composed of .alpha.-SiC and amorphous C.  
 IT **131151-44-5D**, copper complexes  
 RL: PRP (Properties)  
 (characterization of)  
 RN 131151-44-5 CAPLUS  
 CN Poly[[2,2'-bipyridine]-6,6'-diyl-1,2-ethynediyl(diphenylsilylene)-1,2-ethynediyl] (9CI) (CA INDEX NAME)

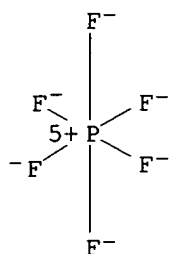


RL: SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. and characterization of)

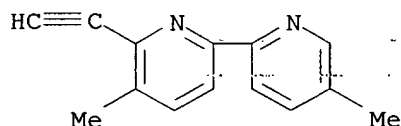
L6 ANSWER 40 OF 50 CAPLUS COPYRIGHT 2002 ACS  
 AN 1993:439449 CAPLUS  
 DN 119:39449  
 TI Synthesis, characterization and properties of novel covalently linked binuclear ruthenium(II) and trinuclear ruthenium(II)-copper(I) bipyridyl complexes  
 AU Grosshenny, Vincent; Ziessel, Raymond  
 CS Inst. Phys. Chim. Mater., Ec. Eur. Hautes Etud. Ind. Chim. Strasbourg, Strasbourg, 67008, Fr.  
 SO Journal of the Chemical Society, Dalton Transactions: Inorganic Chemistry (1972-1999) (1993), (5), 817-19  
 CODEN: JCDBTBI; ISSN: 0300-9246  
 DT Journal  
 LA English  
 AB New ditopic ligands bearing 2 bipyridine subunits and an ethynyl or diethynyl bridge were synthesized and shown to form cationic mononuclear Ru(II) and Cu(I), dinuclear Ru(II), and trinuclear Ru(II)-Cu(I) complexes. The fluorescence of the complexes was studied.  
 IT **148353-62-2P**  
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (prepn. and fluorescence of)  
 RN 148353-62-2 CAPLUS  
 CN Ruthenium(2+), bis(2,2'-bipyridine-N,N') [6,6''-(1,2-ethynediyl)bis[5,5'-dimethyl-2,2'-bipyridine]-N,N']-, (OC-6-33)-, bis[hexafluorophosphate(1-)] (9CI) (CA INDEX NAME)  
 CM 1  
 CRN 148353-61-1  
 CMF C46 H38 N8 Ru  
 CCI CCS



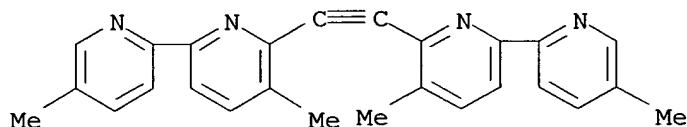
CM 2  
 CRN 16919-18-9  
 CMF F6 P  
 CCI CCS



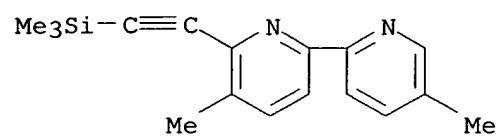
IT **133810-37-4P**, 6-Ethynyl-5,5'-dimethyl-2,2'-bipyridine  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (prepn. and reaction of, with bromo analog)  
 RN 133810-37-4 CAPLUS  
 CN 2,2'-Bipyridine, 6-ethynyl-5,5'-dimethyl- (9CI) (CA INDEX NAME)



IT **146548-28-9P**  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (prepn. and reaction of, with ruthenium bipyridine complex)  
 RN 146548-28-9 CAPLUS  
 CN 2,2'-Bipyridine, 6,6''-(1,2-ethynediyl)bis[5,5'-dimethyl- (9CI) (CA INDEX  
 NAME)

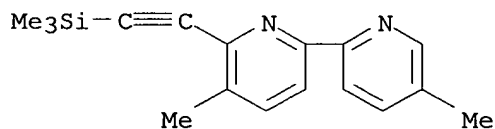


IT **133810-36-3P**, 6-Trimethylsilylethynyl-5,5'-dimethyl-2,2'-  
 bipyridine  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. and removal of silyl group from)  
 RN 133810-36-3 CAPLUS  
 CN 2,2'-Bipyridine, 5,5'-dimethyl-6-[(trimethylsilyl)ethynyl]- (9CI) (CA  
 INDEX NAME)

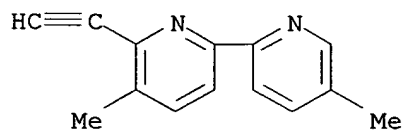




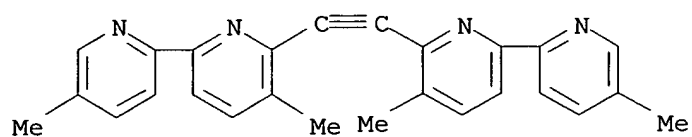
L6 ANSWER 42 OF 50 CAPLUS COPYRIGHT 2002 ACS  
 AN 1993:169307 CAPLUS  
 DN 118:169307  
 TI Synthesis and properties of novel ditopic polypyridine ligands bridged by one and two acetylenic bonds  
 AU Grosshenny, Vincent; Ziessel, Raymond  
 CS Inst. Phys. Chim. Mater., Ec. Eur. Hautes Ind. Chim., Strasbourg, 67008, Fr.  
 SO Tetrahedron Letters (1992), 33(52), 8075-8  
 CODEN: TELEAY; ISSN: 0040-4039  
 DT Journal  
 LA English  
 OS CASREACT 118:169307  
 AB Ethynyl substituted bipyridine chelates react with bromo or triflate functionalized bipyridine or terpyridine subunits, in the presence of catalytic amts. of Pd0(PPh3)4 to yield, the new homo- and heteroditopic ethynyl bridge ligands such as I (n = 1). Self coupling of the ethynyl substituted bipyridine species in the presence of CuCl/TMEDA/O2, yield the sym. diethynyl bridge ligands, such as I (n = 2). A ruthenium complex of I (n = 1) was reported. The application of such complexes in mol. electronic devices and photoinduced charge sepn. was mentioned (no data).  
 IT **133810-36-3P**  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (prepn. and desilylation of)  
 RN 133810-36-3 CAPLUS  
 CN 2,2'-Bipyridine, 5,5'-dimethyl-6-[(trimethylsilyl)ethynyl]- (9CI) (CA INDEX NAME)



IT **133810-37-4P**  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (prepn. and palladium-catalyzed coupling reaction of)  
 RN 133810-37-4 CAPLUS  
 CN 2,2'-Bipyridine, 6-ethynyl-5,5'-dimethyl- (9CI) (CA INDEX NAME)

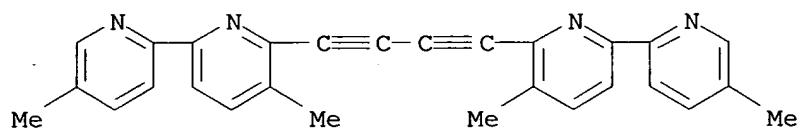


IT **146548-28-9P 146548-29-0P**  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. of)  
 RN 146548-28-9 CAPLUS  
 CN 2,2'-Bipyridine, 6,6''-(1,2-ethynediyl)bis[5,5'-dimethyl- (9CI) (CA INDEX NAME)

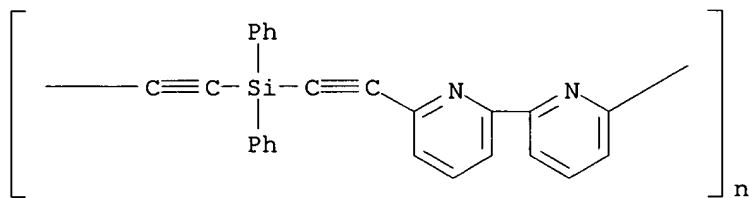


RN 146548-29-0 CAPLUS

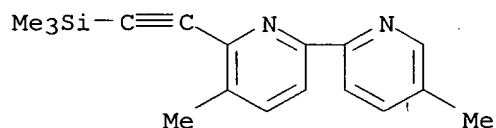
CN 2,2'-Bipyridine, 6,6''-(1,3-butadiyne-1,4-diyl)bis[5,5'-dimethyl- (9CI)  
(CA INDEX NAME)



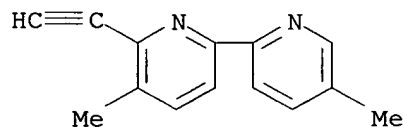
L6 ANSWER 44 OF 50 CAPLUS COPYRIGHT 2002 ACS  
 AN 1992:49387 CAPLUS  
 DN 116:49387  
 TI Electrical conductivity of iron trichloride-doped poly(alkynylsilane)s  
 AU Corriu, Robert J. P.; Douglas, William E.; Yang, Zhi Xin; Garnier, Francis; Yassar, Abderahim  
 CS Univ. Montpellier II, Montpellier, 34095, Fr.  
 SO Journal of Organometallic Chemistry (1991), 417(3), C50-C52  
 CODEN: JORCAI; ISSN: 0022-328X  
 DT Journal  
 LA English  
 AB The elec. conductivities of  $[C.tplbond.CSiR_1R_2C.DELTA.C-Z]_n$  ( $R_1R_2Si = Ph_2Si, nOct(Me)Si$ , 2,3,4,5-tetraphenyl-1-sila-2,4-cyclopentene;  $Z =$  (hetero)arom. group) doped with  $FeCl_3$  lie in the range  $10^{-9} < \sigma < 10^{-3} S cm^{-1}$ , whereas those of the undoped polymers are less than  $10^{-10} S cm^{-1}$ . The presence of Ph groups on Si leads to increased cond.  
 IT **131151-44-5**  
 RL: PRP (Properties)  
 (elec. cond. of)  
 RN 131151-44-5 CAPLUS  
 CN Poly[[2,2'-bipyridine]-6,6'-diyl-1,2-ethynediyl(diphenylsilylene)-1,2-ethynediyl] (9CI) (CA INDEX NAME)



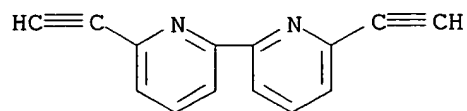
L6 ANSWER 47 OF 50 CAPLUS COPYRIGHT 2002 ACS  
 AN 1991:228682 CAPLUS  
 DN 114:228682  
 TI Towards molecular electronics: a new family of aromatic polyimine  
 chelates substituted with alkyne groups  
 AU Suffert, Jean; Ziessel, Raymond  
 CS Lab. Stereochim. Organometall., EHICS, Strasbourg, 67000, Fr.  
 SO Tetrahedron Letters (1991), 32(6), 757-60  
 CODEN: TELEAY; ISSN: 0040-4039  
 DT Journal  
 LA English  
 AB Pyridine derivs., e.g. (trimethylsilylethynyl)phenanthroline I,  
 -dimethylbipyridine II and -naphthyridine III, were prepd. by reacting the  
 bromo or chloropyridine deriv. with Me<sub>3</sub>SiC.tplbond.CH (IV) in the presence  
 of Pd(PPh<sub>3</sub>)<sub>2</sub>Cl<sub>2</sub>/CuI. Thus, 5-bromo-1,10-phenanthroline reacts with IV to  
 give I. The silylated products were deprotected to give the terminal  
 acetylenes.  
 IT **133810-36-3P 133810-37-4P 133810-42-1P**  
**133810-47-6P 133810-48-7P 133826-69-4P**  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. of)  
 RN 133810-36-3 CAPLUS  
 CN 2,2'-Bipyridine, 5,5'-dimethyl-6-[(trimethylsilyl)ethynyl]- (9CI) (CA  
 INDEX NAME)



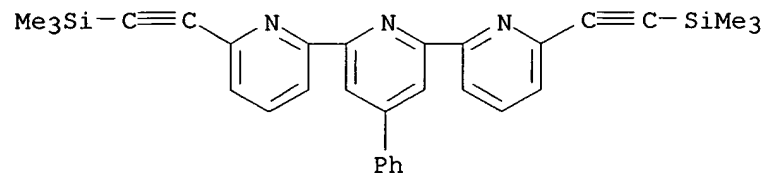
RN 133810-37-4 CAPLUS  
 CN 2,2'-Bipyridine, 6-ethynyl-5,5'-dimethyl- (9CI) (CA INDEX NAME)



RN 133810-42-1 CAPLUS  
 CN 2,2'-Bipyridine, 6,6'-diethynyl- (9CI) (CA INDEX NAME)

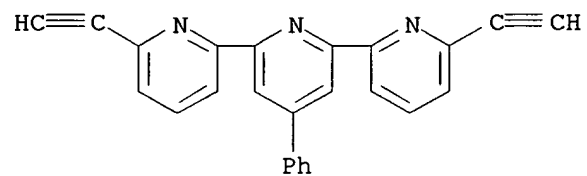


RN 133810-47-6 CAPLUS  
 CN 2,2':6',2''-Terpyridine, 4'-phenyl-6,6''-bis[(trimethylsilyl)ethynyl]-  
 (9CI) (CA INDEX NAME)



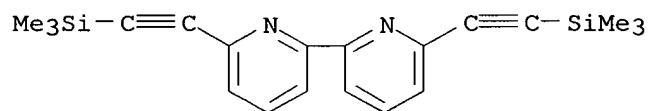
RN 133810-48-7 CAPLUS

CN 2,2':6',2''-Terpyridine, 6,6''-diethynyl-4'-phenyl- (9CI) (CA INDEX NAME)

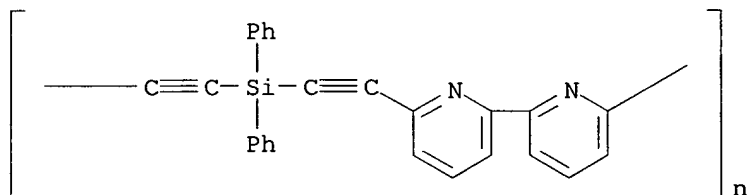


RN 133826-69-4 CAPLUS

CN 2,2'-Bipyridine, 6,6''-bis[(trimethylsilyl)ethynyl]- (9CI) (CA INDEX NAME)



L6 ANSWER 48 OF 50 CAPLUS COPYRIGHT 2002 ACS  
 AN 1991:24704 CAPLUS  
 DN 114:24704  
 TI Synthesis of poly(alkynylsilanes) having various aromatic groups in the backbone  
 AU Corriu, Robert J. P.; Douglas, William E.; Yang, Zhi Xin  
 CS Univ. Montpellier II Sci. Tech. Languedoc, Montpellier, 34095, Fr.  
 SO Journal of Polymer Science, Part C: Polymer Letters (1990), 28(13), 431-7  
 CODEN: JSCLE2; ISSN: 0887-6258  
 DT Journal  
 LA English  
 AB Polymers having the structure  $(-C \cdot \text{tp} \text{bond} \cdot \text{CSi}(\text{Ph})_2 \cdot \text{C} \cdot \text{tp} \text{bond} \cdot \text{CZ}-)_n$  (I; Z = p-C<sub>6</sub>H<sub>4</sub>, p-C<sub>6</sub>H<sub>4</sub>C<sub>6</sub>H<sub>4</sub>-p, 9,10-anthracenyl, 2,7-fluorenyl, 6,6'-bipyridinyl, 2,5- and 2,6-pyridinyl, and 2,5-thiophenyl) were prep'd. by condensation of Ph<sub>2</sub>Si(C.tplbond.CH)<sub>2</sub> with arom. dihalides in Et<sub>3</sub>N in the presence of (PPh<sub>3</sub>)<sub>2</sub>PdCl<sub>2</sub>, Cu<sub>2</sub>I<sub>2</sub>, and PPh<sub>3</sub>. Polymn. was complete after .apprx.16 h, which was confirmed by IR spectra. I was pptd. in pentane and characterized. No 1,3-butadiyne <sup>13</sup>C NMR resonances were obsd., and no significant changes were obsd. after heating Ph<sub>2</sub>Si(C.tplbond.CH)<sub>2</sub> under std. reaction conditions but in the absence of arom. dihalides.  
 IT **131151-44-5P**  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. and characterization of)  
 RN 131151-44-5 CAPLUS  
 CN Poly[[2,2'-bipyridine]-6,6'-diyl-1,2-ethynediyl(diphenylsilylene)-1,2-ethynediyl] (9CI) (CA INDEX NAME)



L6 ANSWER 49 OF 50 CAPLUS COPYRIGHT 2002 ACS  
 AN 1990:178674 CAPLUS  
 DN 112:178674  
 TI Preparation of pyridyldialkanoic acids as leukotriene antagonist drugs  
 IN Young, Robert N.; Zamboni, Robert; Gauthier, Jacques Y.  
 PA Merck Frosst Canada, Inc., Can.  
 SO Eur. Pat. Appl., 29 pp.  
 CODEN: EPXXDW

DT Patent  
 LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 318083	A2	19890531	EP 1988-202564	19881116
	EP 318083	A3	19901205		
	R: CH, DE, FR, GB, IT, LI, NL				
	CA 1322004	A1	19930907	CA 1987-552754	19871125
	JP 01168668	A2	19890704	JP 1988-296381	19881125
PRAI	CA 1987-552754		19871125		

OS MARPAT 112:178674

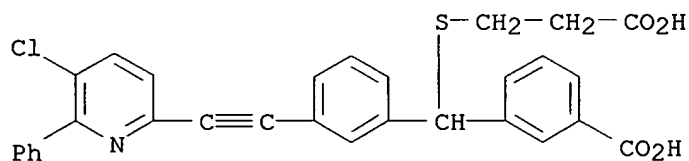
AB The title compds. I [R1 = H, halo, alkyl, alkenyl, alkynyl, CF3, SO2R2, SO2R2, SR2, NR32, OR3, CO2R3, etc.; R2 = alkyl, alkenyl, alkynyl, CF3, (un)substituted Ph, etc.; R3 = H, R2; R4 = H, halo, NO2, CN, etc.; CR3R4 = amino acid radical; R5 = H, halo, CN, SR2, OR3, etc.; R6 = (CH2)SCR72 (CH2)s R8, CH2CONR92; R7 = H, alkyl; R8 = heterocyclyl; X1, X2 = O, S, SO, SO2, etc.; Y = CR2:CR3, C.tplbond.C, etc.; Z1,Z2 = CONR3, phenylene, etc.; Q1, Q2 = CO2R3, CHO, tetrazolyl, etc.; m, p = 0, 1-8; n, r = 0, 1; s = 0, 1-3] are prepd. as leukotriene formation-inhibiting drugs, useful as anti-inflammatory antiasthmatic and antiallergic agents (no data). 3-[2-(5-Phenylpyridin-2-yl)ethenyl]benzaldehyde (prepn. given) was reacted with (prepn. given) was reacted with Me 3-mercaptopropionate, in BF3.Et2O-contg. CH2Cl2, at 0.degree., to give di-Me 5-[3-[2-(5-phenylpyridin-2-yl)ethenyl]phenyl]-4,6-dithianonanedioate. This was sapond. with LiOH and converted into the di-Na salt.

IT **126268-51-7P**

RL: SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. of, as leukotriene formation-inhibiting drug)

RN 126268-51-7 CAPLUS

CN Benzoic acid, 3-[[2-(2-carboxyethyl)thio][3-[(5-chloro-6-phenyl-2-pyridinyl)ethynyl]phenyl]methyl]- (9CI) (CA INDEX NAME)



L6 ANSWER 50 OF 50 CAPLUS COPYRIGHT 2002 ACS  
 AN 1989:115570 CAPLUS  
 DN 110:115570  
 TI Preparation and thermal polymerization of oligomeric  
 poly(oxy pyridinediyl oxyarylenes bearing terminal acetylene groups  
 IN Dussart-Lermusiaux, Annie; Senneron, Michel; Rabilloud, Guy; Sillion,  
 Bernard  
 PA Centre d'Etude des Materiaux Organiques pour Technologies Avancees, Fr.  
 SO Fr. Demande, 26 pp.  
 CODEN: FRXXBL  
 DT Patent  
 LA French  
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2605010	A1	19880415	FR 1986-14090	19861009
	FR 2605010	B1	19881230		
	FR 2621041	A2	19890331	FR 1987-13405	19870925
	FR 2621041	B2	19900112		
	EP 267076	A1	19880511	EP 1987-402209	19871006
	R: BE, CH, DE, GB, IT, LI, NL				
	US 4814403	A	19890321	US 1987-105745	19871008
	JP 63117034	A2	19880521	JP 1987-256139	19871009
PRAI	FR 1986-14090		19861009		

AB The title oligomers, useful in composites, adhesives, foams, etc., are  
 prepd. by polymg. bisphenol salts with dihalopyridines and ethynylation of  
 the halogen-terminated products. Heating 0.4 mol 2,6-dibromopyridine with  
 0.2 mol resorcinol and 41.49 g K<sub>2</sub>CO<sub>3</sub> in N-methylpyrrolidone-PhMe at  
 130.degree. for 7 h with azeotropic distn. of H<sub>2</sub>O gave 91%  
 6,6'-(m-phenylenedioxy)bis(2-bromopyridine), catalytic condensation of  
 which with 2-methyl-3-butyn-1-ol gave 66% bis(3-hydroxy-3-methyl-1-  
 butynyl) deriv., alk. degrdn. of which gave 50% 2,2'-(m-  
 phenylenedioxy)bis(6-ethynylpyridine) (I). Heating I at 180.degree. for 2  
 h gave a polymer with initial decompn. temp. (TGA) 356 and 379.degree. in  
 air and Ar, resp., and wt. loss after 20 h at 300.degree. 2.7%.

IT **119421-85-1P 119421-86-2P 119421-88-4P**  
**119421-89-5P**

RL: IMF (Industrial manufacture); PREP (Preparation)  
 (heat-resistant, manuf. of)

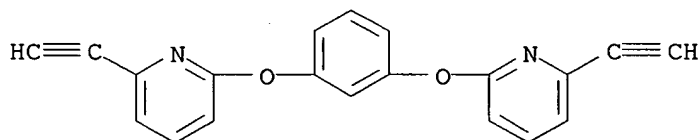
RN 119421-85-1 CAPLUS

CN Pyridine, 2,2'-[1,3-phenylenebis(oxy)]bis[6-ethynyl-, homopolymer (9CI)  
 (CA INDEX NAME)

CM 1

CRN 119409-37-9

CMF C20 H12 N2 O2



(I)

RN 119421-86-2 CAPLUS

CN Pyridine, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxy)]bis[6-ethynyl-,

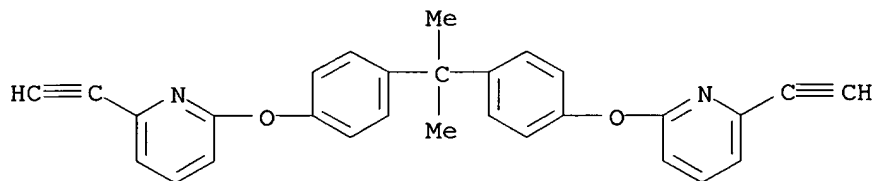


homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 119409-38-0

CMF C29 H22 N2 O2



Provino ④

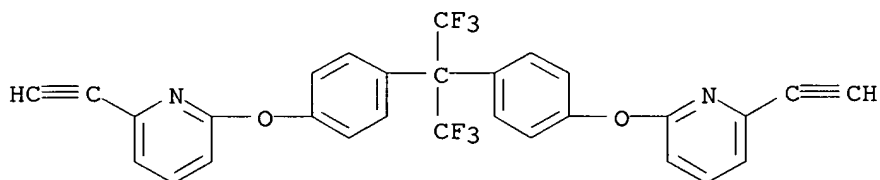
RN 119421-88-4 CAPLUS

CN Pyridine, 2,2'-[[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis(4,1-phenyleneoxy)]bis[6-ethynyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 119421-98-6

CMF C29 H16 F6 N2 O2



Provino ③

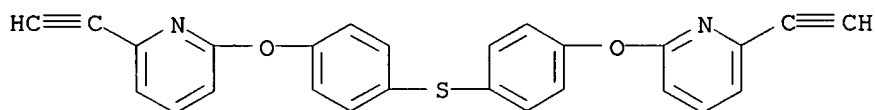
RN 119421-89-5 CAPLUS

CN Pyridine, 2,2'-[thiobis(4,1-phenyleneoxy)]bis[6-ethynyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 119409-40-4

CMF C26 H16 N2 O2 S



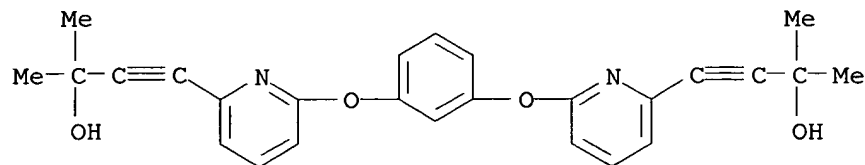
Provino ⑥

IT 119409-36-8P 119409-39-1P

RL: IMF (Industrial manufacture); PREP (Preparation)  
(manuf. and degrdn. of)

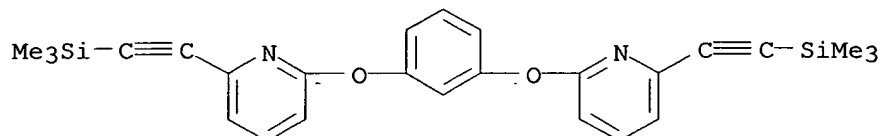
RN 119409-36-8 CAPLUS

CN 3-Butyn-2-ol, 4,4'-[1,3-phenylenebis(oxy-6,2-pyridinediyl)]bis[2-methyl- (9CI) (CA INDEX NAME)



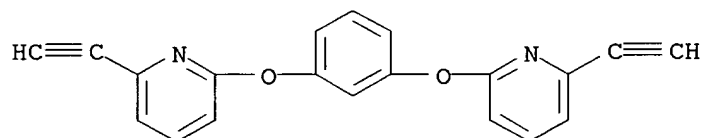
Proviso ③

RN 119409-39-1 CAPLUS  
 CN Pyridine, 2,2'-[1,3-phenylenebis(oxy)]bis[6-[(trimethylsilyl)ethynyl]- (9CI) (CA INDEX NAME)

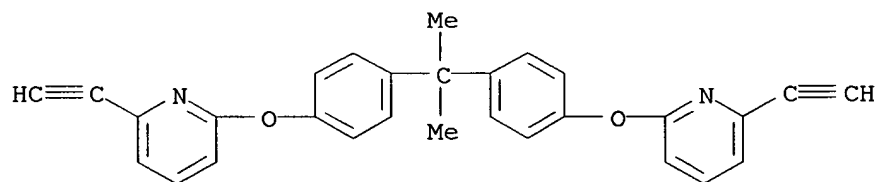


Proviso ②

IT **119409-37-9P 119409-38-0P**  
 RL: IMF (Industrial manufacture); PREP (Preparation)  
 (manuf. of)  
 RN 119409-37-9 CAPLUS  
 CN Pyridine, 2,2'-[1,3-phenylenebis(oxy)]bis[6-ethynyl]- (9CI) (CA INDEX NAME)

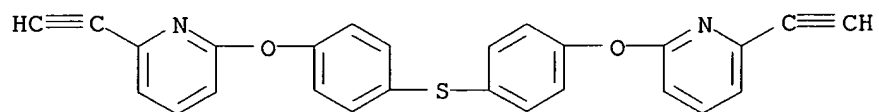


RN 119409-38-0 CAPLUS  
 CN Pyridine, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxy)]bis[6-ethynyl]- (9CI) (CA INDEX NAME)



IT **119409-40-4P 119421-98-6P**  
 RL: PREP (Preparation)  
 (prepn. of)  
 RN 119409-40-4 CAPLUS  
 CN Pyridine, 2,2'-[thiobis(4,1-phenyleneoxy)]bis[6-ethynyl]- (9CI) (CA INDEX NAME)

10/087,066



RN 119421-98-6 CAPLUS

CN Pyridine, 2,2'-[[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis(4,1-phenyleneoxy)]bis[6-ethynyl- (9CI) (CA INDEX NAME)

